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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: A. Maxwell Eliscu

Title: SYSTEM FOR AND METHOD OF  
HANDLING REFERRALS FROM  
REFERRING PARTIES

Appl. No.: Unknown

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Examiner: Unknown

Art Unit: Unknown

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**UTILITY PATENT APPLICATION**  
**TRANSMITTAL**

Assistant Commissioner for Patents  
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Sir:

The application claims the benefits of U.S. Provisional Application No. 60/230,968, filed 09/07/2000. Transmitted herewith for filing under 37 C.F.R. § 1.53(b) is the nonprovisional utility patent application of:

A. Maxwell Eliscu

Enclosed are:

- ☒ [ X ] Specification, Claim(s), and Abstract (75 pages).
- ☒ [ X ] Informal drawings (47 sheets, Figures 1-38).
- ☒ [ X ] Declaration and Power of Attorney (3 pages).
- ☒ [ X ] Assignment of the invention to LSQ II, LLC.
- ☒ [ X ] Assignment Recordation Cover Sheet.
- ☒ [ X ] Check in the amount of \$40.00 for Assignment recordation.
- ☒ [ X ] Small Entity statement.
- ☐ [ ] Information Disclosure Statement.
- ☐ [ ] Form PTO-1449 with copies of \_\_\_\_ listed reference(s).

The filing fee is calculated below:

	Claims as Filed	Included in Basic Fee	Extra Claims	Rate	Fee Totals
Basic Fee				\$690.00	\$690.00
Total Claims:	67	- 20	= 47	x \$18.00	= \$846.00
Independents:	3	- 3	= 0	x \$78.00	= \$0.00
If any Multiple Dependent Claim(s) present:				+ \$260.00	= \$0.00
				SUBTOTAL:	= \$1536.00
[ X ]	Small Entity Fees Apply (subtract ½ of above):				= \$768.00
	TOTAL FILING FEE:				= \$768.00

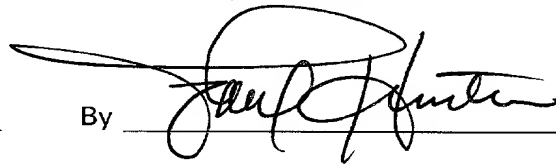
- [ X ] A check in the amount of \$768.00 to cover the filing fee is enclosed.
- [ ] The required filing fees are not enclosed but will be submitted in response to the Notice to File Missing Parts of Application.
- [ X ] The Assistant Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 06-1447. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Assistant Commissioner is authorized to charge the unpaid amount to Deposit Account No. 06-1447.

Please direct all correspondence to the undersigned attorney or agent at the address indicated below.

Respectfully submitted,

Date Sept. 20, 2000

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SERIAL OR PATENT NO.: \_\_\_\_\_  
FILED OR ISSUED: \_\_\_\_\_  
FOR: SYSTEM FOR AND METHOD OF HANDLING REFERRALS FROM REFERRING PARTIES

**STATEMENT CLAIMING  
SMALL ENTITY STATUS (37 CFR 1.9(f) and 1.27(c))  
SMALL BUSINESS CONCERN**

I hereby declare that I am:

- ☐ the owner of the small business concern identified below.
- ☒ an official of the small business concern empowered to act on behalf of the concern identified below.

NAME OF CONCERN: LSQ II, LLC

ADDRESS OF CONCERN: 1 South Orange Avenue, Suite 405, Orlando, Florida 32801

I hereby declare that the above identified small business concern qualifies as a small business concern as defined in 13 CFR 121.3-18, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention, entitled:

SYSTEM FOR AND METHOD OF HANDLING REFERRALS FROM REFERRING PARTIES

by inventor(s) A. Maxwell Eliscu  
described in:

- ☒ the specification filed herewith
- ☐ application serial no. \_\_\_\_\_, filed \_\_\_\_\_
- ☐ patent no. \_\_\_\_\_, issued \_\_\_\_\_

If the rights held by the above-identified small business concern are not exclusive, each individual, concern or organization having rights to the invention is listed below\* and no rights to the invention are held by any person, other than the inventor, who would not

qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e). NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_  
☐ Individual    ☐ Small Business Concern    ☐ Nonprofit Organization

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_  
☐ Individual    ☐ Small Business Concern    ☐ Nonprofit Organization

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein are of my own knowledge, are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING: A. Maxwell Eliscu

TITLE OF PERSON OTHER THAN OWNER: Manager

SIGNATURE [Signature] DATE 9/19/00



**U.S. PATENT APPLICATION**

**FOR**

**SYSTEM FOR AND METHOD OF HANDLING REFERRALS  
FROM REFERRING PARTIES**

Inventor: A. Maxwell Eliscu

## **SYSTEM FOR AND METHOD OF HANDLING REFERRALS FROM REFERRING PARTIES**

### **FIELD OF THE INVENTION**

The present invention relates generally to transaction management and financial services. More particularly, the present invention relates to a system for and a method of providing financial and transaction management services to small companies. Additionally, the present invention relates to a system for and a  
5 method of receiving referrals from referring parties, including independent lenders, insurance companies, leasing companies, governmental groups (e.g, local, state, federal, international), business to business web portals or e-commerce marketplaces or any party referring businesses who may be seeking or may benefit from the transaction management and financial services provided by the system.

### **BACKGROUND OF THE INVENTION**

10 Small businesses are traditionally forced to spend a significant amount of resources on tasks that are unrelated to the main focus of their business. Examples of these tasks for a small business acting as a Seller include obtaining financing, managing financing transactions, identifying potential commercial customers, determining viability and suitability of potential commercial customers  
15 (e.g., credit evaluation), engaging commercial customers, completing orders for the commercial customers, preparing and managing all the paperwork associated with the commercial transaction, managing accounts receivable which are the outcome of a commercial transaction with the engaged customer for which credit terms were extended, receiving payments on accounts receivable, applying those received  
20 payments, preparing deposit tickets and depositing received payments, handling disputes over commercial transactions, managing relationship with commercial customers, etc. Examples of these tasks for a small business acting as a Buyer include locating commercial concerns capable of providing requested products and services, requesting financing, providing and transferring the information requested  
25 by the located commercial concern in order to approve the requested financing, obtaining financing (e.g., domestic trade credit, net 30 net 60), preparing and

5 sending purchase orders, receiving product or service, receiving commercial transaction documentation which may include detail concerning the amount and date moneys are owed, confirming the accuracy of commercial transaction documentation, scheduling requests for payment, on the scheduled date identifying that sufficient funds are available to make payment, initiating payment, reconciling and closing the commercial transaction, etc.

10 Traditionally, managing these tasks either for a Seller or a Buyer requires significant resource allocation as Sellers and Buyers utilize traditional tools (e.g., phone calls, voice mail messages, faxes, mail, etc) to approve and manage their relationships with each other, the commercial transactions resulting from those relationships, and the commercial transactions documents resulting from those transactions. Larger businesses are able to handle many of these transactions using automated systems and properly staffed and trained departments. Additionally, they often offer transactional services to their customers over the Internet. Small  
15 businesses generally are not able to dedicate the same level of human or technological resources to these administrative functions as their larger counterparts. Driving this inequity are the scale and capital base required to justify the human and technological investment made by larger companies.

20 Small businesses also face problems when they seek to offer business to business e-commerce services to their customers. E-commerce can replace phone calls, faxes, invoicing, direct sales, and other communication means traditionally used in buying, selling, and post-sales customer support between businesses. However, business to business e-commerce poses challenges for small businesses. For example, small companies do not generally have the resources to implement e-  
25 commerce solutions or gain real time knowledge regarding new customers.

Thus, there is a need in the marketplace to facilitate and/or conduct business to business financial and transaction management services for small companies, thereby alleviating internal workload constraints and saving business managers and owners from unnecessary distractions.

Small businesses also face difficulties when obtaining financing from traditional financing institutions. In many cases, small business are unable to meet a financial institution's minimum criteria, and are thus declined for the requested financing. As financial institutions have a substantial investment in the distribution channels (e.g., branch network, sales force, Internet, brand awareness, etc.) necessary to attract prospective customers and migrate existing customers to new products and services, declining small businesses for financing creates enormous sunk costs for financial institutions. Further, being declined by a financial institution forces small businesses to seek financing elsewhere, requiring them to repeat the financing request process.

The traditional referral model, which is designed to extract value from customers that are declined for financing—"declinations"—or that are referred for other reasons, is cumbersome and incapable of recouping the substantial value that exists within these declinations. In the traditional referral model, financial institutions seek to extract value from these declinations by recommending or providing information on alternative solution providers. Although such alternative solution providers may not be owned by the financial institution, suggesting an alternative solution provider lessens the negative effect of the financial institutions' inability to meet the financing needs of its customers and prospects. The financial institution may also be able to obtain fee income from the alternative solution providers.

The traditional referral process, which is paper-intensive and includes little if any automation, breeds inefficiencies as financial institutions seek to compile, refer, track, and manage referrals to alternative solution providers. In addition, as financial institutions refer declinations to alternative solution providers and declinations become the customers of these alternative solution providers, financial institutions erode their relationship, access, and brand exposure to declinations. As a result of this erosion, financial institutions cannot fully leverage the value to the franchise which may exist within the declinations.

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Briefly, another exemplary embodiment relates to a computer program product comprising computer readable program code for handling  
5 declinations. The program code in the computer program product including first computer readable program code for receiving a referral from a referring party where the referral including information regarding any one of a financing-seeking party that has been declined by the referring party, a transaction management-seeking party, a trade credit-seeking party, and a credit guarantee-seeking party; and  
10 second computer readable program code for storing the information regarding the referral in a storage device.

**BRIEF DESCRIPTION OF THE DRAWINGS**

15           The invention is illustrated by way of example and not limitation in the figures of the accompanying drawings, in which like references indicate similar elements and in which:

FIGURE 2 is a diagrammatical representation of exemplary operational aspects of the transaction management and financial services system illustrated in FIGURE 1;

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FIGURE 4 is a general diagrammatical representation of an application infrastructure for an exemplary embodiment of the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 5 is a general diagrammatical representation of an electronic commerce architecture used by an exemplary embodiment of the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 6 is a diagrammatical representation of an exemplary embodiment of an e-commerce architecture used in the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 7A is a flow diagram illustrating an exemplary process of alternative financing arrangements provided in partnership with a referring party in the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 7B is a flow diagram illustrating an exemplary method for meeting financing needs in the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 7C is a flow diagram illustrating an exemplary method for meeting financing needs in the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 8A is a diagrammatical representation of an exemplary embodiment of transaction management and financial services system 100 configured to interact with a business to business (B2B) portal to provide trade credit underwriting and commercial transaction management services to B2B portal participants;

FIGURE 8B is a flow diagram illustrating an exemplary process of trade credit underwriting in an exemplary embodiment of the transaction management and financial services illustrated in FIGURE 1;

FIGURE 8C is a flow diagram illustrating an exemplary process of obtaining credit insurance/guaranty in the transaction management and financial services system illustrated in FIGURE 1;

5       FIGURE 8D is a flow diagram illustrating an exemplary process of receiving and processing a request for a credit guarantee in the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 9 is a flow diagram illustrating an exemplary method used in an accounts receivable management system implemented in the transaction management and financial services system illustrated in FIGURE 1;

10       FIGURE 10 [was removed];

FIGURE 11 is a flow diagram illustrating an exemplary method for providing an on-line letter of credit used in the transaction management and financial services system illustrated in FIGURE 1;

15       FIGURE 12 is a flow diagram illustrating an exemplary method used in the customization process of the transaction management and financial services system illustrated in FIGURE 1;

FIGURES 13A-C are flow diagrams illustrating exemplary processes of participant access to the transaction management and financial services system illustrated in FIGURE 1;

20       FIGURE 13D is a flow diagram illustrating operational aspects of an exemplary embodiment of the transaction management and financial services system illustrated in FIGURE 1 in partnership with electronic portals;

25       FIGURE 14 is a flow diagram illustrating an exemplary method for providing a front end system to handle information submitted to the transaction management and financial services system illustrated in FIGURE 1;

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FIGURE 15 is a flow diagram illustrating an exemplary method for processing and analyzing applications submitted to the exemplary front end system shown in FIGURE 14;

5       FIGURE 16A is a flow diagram illustrating exemplary steps in a factor underwriting process in the transaction management and financial services system illustrated in FIGURE 1;

FIGURES 16B-C are flow diagrams illustrating an exemplary alternative screening process for finding alternative funding sources in the transaction management and financial services system illustrated in FIGURE 1;

10       FIGURE 17 is a flow diagram illustrating exemplary steps in a factor underwriting process in the transaction management and financial services system illustrated in FIGURE 1;

15       FIGURE 18 is a flow diagram illustrating exemplary steps in a trade credit underwriting process in the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 19 is a flow diagram illustrating exemplary steps in a trade credit underwriting process in the transaction management and financial services system illustrated in FIGURE 1;

20       FIGURE 20 is an exemplary screen display illustrating an initial welcoming screen in the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 21 is an exemplary screen display illustrating a log-in feature in the transaction management and financial services system illustrated in FIGURE 1;

25       FIGURE 22 is an exemplary screen display illustrating an account statement for a user of the transaction management and financial services system illustrated in FIGURE 1;

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FIGURE 24 is an exemplary screen display illustrating a pop up window displaying an exemplary invoice for a customer of the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 26 is an exemplary screen display illustrating a listing of invoices for a customer of the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 28 is an exemplary screen display illustrating a pop up  
20 window that is created when the user enters the dispute illustrated in FIGURE 27;

FIGURE 30 is an exemplary screen display illustrating the account  
25 status for a buyer using the transaction management and financial services system  
illustrated in FIGURE 1;

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makes an advance request that is greater than the amount of funds available to that seller;

FIGURE 32 is a flow diagram illustrating an exemplary method for processing the request for funding shown in FIGURE 30;

FIGURE 33 is an exemplary screen display illustrating a window including communication functionality available to a buyer in the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 34 is an exemplary screen display illustrating the selection of one row of information associated with an invoice that can be communicated using the communication functionality available to a buyer in the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 35 is an exemplary screen display illustrating a collections activity related to a seller in the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 36 is an exemplary screen display illustrating an image of a check payment accessed from the screen display illustrated in FIGURE 35;

FIGURE 37 is an exemplary screen display illustrating an image of an invoice accessed from the screen display illustrated in FIGURE 35; and

FIGURE 38 is an exemplary screen display illustrating a window including communication functionality available to a seller in the transaction management and financial services system illustrated in FIGURE 1.

**DETAILED DESCRIPTION OF THE EXEMPLARY EMBODIMENTS**

A system for and method of providing financial and transaction management services over a network are described. In the following description, for purposes of explanation, numerous specific details are set forth in order to  
5 provide a thorough understanding of exemplary embodiments of the invention. It will be evident, however, to one skilled in the art that the invention may be practiced without these specific details. In other instances, well-known structures and devices are shown in block diagram form in order to facilitate description of the exemplary embodiments of the invention.

10 In one embodiment, a computer system is used which has a processing unit that executes sequences of instructions contained in a memory. More specifically, execution of the sequences of instructions causes the processing unit to perform steps, which are described below. The instructions may be loaded into a random access memory (RAM) for execution by the processing unit from a  
15 read-only memory (ROM), a mass storage device, or some other persistent storage. In other embodiments, hardwired circuitry may be used in place of, or in combination with, software instructions to implement the present invention. Thus, the embodiments described herein are not limited to any specific combination of hardware circuitry and software, nor to any particular source for the instructions  
20 executed by the computer system.

FIGURE 1 illustrates a transaction management and financial services system 100 that is configured to communicate with network 110. Network 110 can be the Internet, a worldwide network of computer networks that use the TCP/IP network protocols to facilitate data transmission and exchange. In such an  
25 embodiment, network 110 provides communication with Hypertext Markup Language (HTML) web pages or any other type of presentation format, such as, formats used in WAP phones or any other communication device. In alternative embodiments, network 110 is any type of network, such as, a virtual private network, an intranet, a WAN, a LAN, or extranet.

System 100 can communicate with a small business (one of businesses 120, 130, 140) via a financial institution. For example, in one embodiment, small business 130 communicates with system 100 via a financial institution 150 connected to network 110. In another embodiment, a financial institution 160 is configured to communicate with system 100 via network 110. In another embodiment, a financial institution 170 is directly coupled to communicate with system 100 without communication via network 110. Financial institutions 150, 160, and 170 can be banks, credit unions, loan companies, or any entity offering financial services.

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5 A referring party can be financial institution, an independent lender,  
an insurance company, a leasing company, a governmental group (e.g, local, state,  
federal, international), a business to business Web portal or e-commerce  
marketplace or any party referring businesses who may be seeking or may benefit  
from the transaction management and financial services provided by system 100, or  
10 that has entered into a marketing relationship with transaction management and  
financial services system 100. In an exemplary embodiment, marketplaces 201, 202,  
203 and 204 are associated with financial institutions 231, referring party 232, 233,  
and B2B web site 234, respectively.

FIGURE 3 illustrates an exemplary embodiment of marketplace 201 that is configured to interact with buying communities 211 and 221 and financial institution 231. Buying communities 211 and 221 consist of at least one buyer and at least one seller. Marketplace 201 includes a data warehouse 301, an image repository 302, and a profiling module 303. Exemplary processes carried out in marketplace 201 can include financing 700, trade credit underwriting 800, and commercial transaction management 900.

100 provides financing, trade credit underwriting, and commercial transaction management. One embodiment of financing in system 100 is described below with reference to FIGURE 7. One embodiment of trade credit underwriting is described below with reference to FIGURE 8. One embodiment of commercial transaction management is described below with reference to FIGURE 9.

In an exemplary embodiment, marketplace 201 can be implemented as a plurality of customized web pages in which participants interact with other participants in marketplace 201 and in which the web pages contain advertisements for services offered by financial institution partner 231, feature the logo of the financial institution partner 231, or any other desirable customization, including content. Advantageously, these web pages allow participants a convenient forum for managing, maintaining, modifying, and concluding all commercial transactions or financing related services. Similarly, a web page custom created based on the participant's stored profile allows the financial institution for that marketplace to provide target marketing to the participants while enhancing brand exposure and deepening customer relationships. Customization may include brand information associated with the referring party. As explained above, brand information may be used to indicate that operations offered in marketplace 201 are offered in affiliation with a referring party or, alternatively, that operations in marketplace 201 are being performed by a referring party.

In an exemplary embodiment, data warehouse 301 provides a storage device used by marketplace 201 to store data, including commercial transaction information, ancillary commercial transaction information, and all other information captured during and resulting from the operations of marketplace 201 (e.g., trade credit underwriting, commercial transaction management, financing). Image repository 302 stores images, including images associated with commercial transaction information, ancillary commercial transaction information, and all other images captured during and resulting from the operations of marketplace 201. Commercial transaction information can include commercial transaction data and images of the documents evidencing the transaction, such as, invoices, purchase orders, shipping documentation, check copies, check remittance information, credit

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and all other information captured during and resulting from the operations of marketplace 201) in data warehouse 301. The analysis enabled by profiling module 303 results in the creation of a profile for a user, which can be either a specific company user or a specific individual user within a company. In addition to data  
5 analysis, the profiling module 303 allows the customization of: the content presented to the user, the look and feel presented to the user, the advertisements presented to the user, the brand images presented to the user, and other information presented to the user.

In an exemplary embodiment, profiles are stored in databases or on a  
10 web server. The profile is based in part on unique information gathered by system 100 and in part on external information. The information stored can include the size of the business, number of years in operation, the industry of the business, the nature of the business including whether it manufactures, wholesales, distributes or  
15 retails the product it sells, payment records, purchase records, banking records, credit record, and a summary of any transactions conducted in transaction management and financial services system 100, as well as other information.

Profiling module 303 shown in FIGURE 3 allows transaction management and financial services system 100 to deliver highly customized products, services, advertisements, and content to marketplace participants. For  
20 example, an advertiser or financial institution can market products and services based on any aspect or a combination of aspects in a profile. Because the advertisement can be highly specific, targeting the needs, interests, wants, problems, and other characteristics identified through profiling module 303, participants will receive content, advertisements, product and service offerings,  
25 screen display customization, and other information which is more likely to provide benefit. In addition, participants are unlikely to be subjected to advertising, content, product and service offerings, etc. which are not aligned with their needs, wants, interests, etc..

FIGURE 4 illustrates an exemplary embodiment of an application  
30 infrastructure 400 for system 100. Infrastructure 400 is configured to communicate

with an internal user 410 and with external users, such as, a business-to-business (B2B) company 420 or an external user 430 via a network 440. Infrastructure 400 can include a firewall 450, a presentation layer 455, an integration and scalability tier 460, middleware 465, a database 470, application software package 475, and an application software package 480.

Firewall 450 is any software, hardware, or combination of hardware and software that attempts to prevent unauthorized users from gaining access to a computer network or that monitors transfer of information to and from the network. Presentation layer 455 may include a number of components that provide user interface functions as well as business to business middleware services. In one embodiment, presentation layer 455 includes a server 457 and application specific programs (ASPs) 459. Tier 460 provides integration and scalability. In one embodiment, tier 460 includes an application server 462 and common services 463 and 464. Tier 460 provides a common interface to application packages and database, or the “back end”.

Middleware 465 is any software that mediates between an application program and a network, managing the interaction between disparate applications across heterogeneous computing platforms. For example, Object Request Broker (ORB) is middleware that manages communication between objects. Middleware 465 communicates with a database 470, application package 475, and application package 480.

The application infrastructure described with reference to FIGURE 4 has the advantage of allowing external user 430 and business to business site 420 to communicate with system 100 over network 440. By allowing communication over network 440, participants can access the information and functionality offered by system 100 from anywhere.

FIGURE 5 illustrates an electronic commerce architecture 500 used by an exemplary embodiment of system 100. Architecture 500 can include a set of core web services 510 that can be accessed by supply chain participants 520 and service providers 530. Core web services 510 can include any of a variety of

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Also in communication with web services 610 is an administrative services module 680, including access control, site management, and analysis, such as, customer profiling, seller/buyer reporting, and benefit reporting. Applications environment and data module 660, content origination services module 670, and administrative services module 680 can be provided in software, hardware, or a combination of software and hardware.

FIGURES 7A illustrates a flow diagram 701 of an exemplary process of alternative financing arrangements provided in partnership with a referring party. In diagram 701, an existing customer 761 and target customer 762 of referring party

780, submit applications to referring party 780. Following the submission of an application, referring party 780 can either approve the application, in a step 790, or decline the application, in a step 791. If the referring party declines the application, in step 791, there are two likely outcomes, either the financing seeking party  
 5 remains with the referring party, but is dissatisfied, in a step 792, or the financing seeking party severs its relationship with the referring party, in a step 793. In an exemplary embodiment, the referring party seeks to maintain its relationship and brand exposure with/to financing seeking parties 761 and 762.

10 In one embodiment, if the financing request of financing seeking party 761 or 762 is declined, referring party 780 forwards the application for financing, in a step 794, to transaction management and financial services system 100 for review and approval. Transaction management and financial services system 100 then seeks to meet the financing need as further described with reference to FIGURE 7B. Two outcomes are possible—first, transaction management and  
 15 financial services system 100 approves the financing request, in a step 795, in which case referring party 780 is able to offer an alternative solution to financing seeking parties 761 and 762, or—second--transaction management and financial services system 100 declines the financing request, in a step 796, in which case no harm has been done.

20 In an exemplary embodiment, all steps described with reference to FIGURE 7A can be completed using the Internet. FIGURES 7B illustrates a flow diagram 702 of an exemplary process of alternative financing arrangements in transaction management and financial services system 100. The exemplary process follows the declination referral model described above with reference to FIGURE  
 25 7A, in which financing seeking parties are referred to transaction management and financial services system 100 by a referring party and are provided with alternative financing arrangements in lieu of a standard decline in financing from the referring party. In another embodiment, a referral is received from a referring party where no decline has been made, as described further with reference to FIGURE 13D.

In a step 710 (which follows from step 794 in FIGURE 7A), a referring party refers a financing seeking party to transaction management and financial service system 100. In an exemplary embodiment, the referring party is a bank, an independent lender, or any other financial institution offering financing.

- 5 After step 710, a step 713 is performed in which a client screening process is performed to determine whether the referred client is a satisfactory client. One embodiment of a client screening process is described below with reference to FIGURE 16B and 16C.

- 10 After step 713, a step 715 is performed in which the financing seeking party is offered a proposal for financing by transaction management and financial service system 100. In an exemplary embodiment, this proposal for financing is made in the name of the referring party, on behalf of the referring party, in connection with the referring party or as the result of a relationship with the referring party by transaction management and financial service system 100 via a
- 15 web interface. In another exemplary embodiment, the screen display at a remote device accessing transaction management and financial service system 100 is customized to further the brand exposure of the referring party. A representative of transaction management and financial service system 100 can make this proposal for financing in person, by mail, by telephone, over the Internet, or by any other
- 20 communication method. Following step 715, a step 720 is performed in which the financing seeking party either accepts or declines the proposal for financing. If the referred client declines proposal for financing, a gracious exit procedure 725 is performed.

- If the referred client chooses to accept the proposal for financing in
- 25 step 720 a credit extension procedure is performed in step 750 (FIGURE 7C). In an exemplary embodiment, this proposal for financing comprises an offer for receivables based financing. In this embodiment, a step 730 is performed. In step 730, the financing seeking party submits accounts receivable to transaction management and financial service system 100. In one embodiment, the financing
- 30 seeking party meets with financial personnel of transaction management and financial service system 100 to arrange for transaction management and financial

service system 100 to provide accounts receivable financing. Alternatively, the arrangement for transaction management and financial service system 100 to provide accounts receivable financing can be conducted completely over the Internet, or any other method of communication. In yet another embodiment, the submission and

5 financing of the accounts receivable can be conducting completely over the Internet, or any other method in which transaction management and financial service system 100 obtains referrals. Advantageously, the expertise, economies of scale, and unique methods of transaction management and financial service system 100 make it much less expensive and time consuming for transaction management and financial

10 service system 100 to make a proposal to and provide financing for the financing seeking party.

Following submission of the accounts receivable in step 730, a step 735 is performed in which the transaction management and financial service system 100 uses internal standards to evaluate the accounts of the referred client. In an

15 exemplary embodiment, transaction management and financial service system 100 extends credit based on the value of the account receivable. Based on the review in step 735 by transaction management and financial service system 100, a credit extension procedure, step 750 is performed. In an exemplary embodiment, an account is set up for the financing seeking party in marketplace 201 (described with

20 reference to FIGURE 3). In another embodiment, marketplace 201 is accessed by the financing seeking party via the Internet. In yet another embodiment, the financing seeking party accesses and manages the financing provided by transaction management and financial service system 100, or an alternative financing provider, via marketplace 201. Advantageously, marketplace 201 allows the referring party

25 to maintain access to and brand exposure with declined financing seeking parties. In addition, marketplace 201 allows the referring party to gain access to and develop brand exposure with the buying community of financing seeking parties. In an exemplary embodiment, each participant in the marketplace has a buying community.

30 Following step 750, a step 755 is performed in which the financing seeking party has the option of submitting additional accounts receivable to

transaction management and financial service system 100. If the financing seeking party chooses to submit additional accounts, the financing seeking party is cycled back to the account evaluation step 735. Alternatively, if the financing seeking party does not submit additional accounts, transaction management and financial  
 5 service system 100 assists in, or facilitates the management, maintenance, modification and conclusion of the transactions.

According to an exemplary embodiment, all of the steps in flow diagram 700 can be performed via the Internet. Web pages and e-mail messages can be used to exchange the necessary information between transaction management and  
 10 financial service system 100 and financing seeking parties and referring parties.

FIGURE 8A illustrates a diagram 800 showing how an exemplary embodiment of transaction management and financial services system 100 can be configured to interact with a business to business (B2B) portal 860 to provide trade credit underwriting and commercial transaction management services to participants  
 15 of B2B portal 860. In diagram 800, a buyer 861 wants to purchase product from a seller 862, utilizing the technological resources of B2B portal 860 to market and conduct commercial transaction over the Internet. In one embodiment, buyer 861 may not be able to purchase product using credit cards. For various reasons, ranging from insufficient credit card availability to lack of approval from a  
 20 procurement department for non-standard purchasing terms, buyer seeks to establish credit terms with seller for the purchase of goods and services through B2B portal 860. Seller 862, a small business with limited credit staff and history selling to firms over the Internet, has opted to participate in the trade credit analysis and commercial transaction management services offered by B2B portal 860, through  
 25 transaction management and financial services system 100.

In an exemplary embodiment, in a step 870, a purchase order (P.O.) is issued by buyer 861 and sent through B2B portal 860, in step 871 to system 100 (described further with reference to FIGURE 14 below). In another embodiment, the P.O. is issued and mailed directly to Seller 862. In still another embodiment,  
 30 the P.O. is sent, electronically or via paper based P.O., to transaction management



and financial services system 100. Were it not for the exemplary embodiment of transaction management and financial services system 100 converting the commercial transaction documentation to electronic format, including images (described with reference to FIGURE 14), the commercial transactions would be moved off-line.

Transaction management and financial services system 100 analyzes buyer 861, and, in a step 872, forwards the P.O. and recommendation/guarantee on to seller (described with reference to FIGURE 18 and FIGURES 8C-D). Seller 862, if approving of the recommendation or accepting of the guarantee, ships its product or provides its services to buyer 861. In a step 873, Seller 862 forwards an electronic invoice for payment to B2B portal 860. The invoice is further forwarded to transaction management and financial services system 100 in a step 874a and then on to buyer 861, in a step 874b. In an exemplary embodiment, the invoice is forwarded electronically, through B2B portal 860 to system 100. In another embodiment, a paper based invoice is created by Seller 862 and forwarded to System 100 and/or Buyer 861. Transaction management and financial services system 100 converts the commercial transaction documentation to electronic format, including images (described below with reference to FIGURE 14), thereby avoiding the creation and forwarding of paper-based invoices and the moving of the commercial transaction off-line.

In another embodiment, Buyer 861, in step 876, pays transaction management and financial services system 100 directly. In an exemplary embodiment, payment can be made via electronic transmission or paper based payment. If payment is made via electronic transmission, System 100 applies the payment based on the electronic remittance advice and makes all information available to Buyer 861 and Seller 862 for the management, maintenance, modification and conclusion of the commercial transaction. If a paper based payment is received, system 100 applies the payment based on the paper based remittance advice, converts the paper based payment information and remittance advice to electronic format, including images (described with reference to FIGURE 14), and makes all information available to Buyer 861 and Seller 862 for the

management, maintenance, modification and conclusion of the commercial transaction.

Advantageously, system 100, in partnership with B2B Portal 860, provides liquidity to the marketplace by providing Seller 862 with a mechanism to  
 5 identify and analyze, at the time of inquiry by Buyer 861, the ability of Buyer 861, located through B2B portal 860, to repay its commercial obligations. In addition, the partnership of B2B Portal 860 and system 100 ensures that any commercial transaction initiated online, can be managed online, regardless of whether  
 10 subsequent commercial transaction steps performed by Buyer 861 or Seller 862, are performed online or via more traditional paper based methods. Another advantage is that B2B Portal 860 does not lose access to Buyer 861 and Seller 862 as they otherwise move their online transactions offline. A further advantage is the ability of system 100 to migrate commercial transactions, initiated offline, with buying communities 891, 892 and 893, online, and to provide B2B Portal 860 with access,  
 15 brand exposure and targeted content, service and product delivery to these communities.

FIGURE 8B illustrates a flow diagram 850 of an exemplary process of trade credit (e.g. net 30, net 60) underwriting in one embodiment of transaction management and financial services system 100. In particular, flow diagram 850  
 20 illustrates a transaction between a buyer and a seller in a marketplace. The buyer seeks to receive standard credit terms relating to the payment for a product or service intended to be purchased from a seller that is a participant in transaction management and financial services system 100.

In a step 810, a customer's application for trade credit is received by  
 25 transaction management and financial services system 100 from any one of: an account the buyer maintains with transaction management and financial services system 100; the seller, through an account the seller maintains with transaction management and financial services system 100; a link from a business to business e-commerce marketplace; a link from a referring party web site; or from any other  
 30 source. After step 810, a step 811 is performed in which transaction management

and financial services system 100 analyzes the credit request in an attempt to provide a recommendation concerning the Buyer's ability to pay. Alternatively, transaction management and financial services system 100 analyzes the credit request in an attempt to provide information which can be used by the Seller to

5 make a decision concerning the Buyer's ability to pay. Alternatively, transaction management and financial services system 100 could analyze the request for purposes of guaranteeing the customer's ability to pay. In another alternative, a step 812 is performed, in which transaction management and financial services system 100 seeks bids, from external sources, for guarantees of the customer's ability to

10 pay. After step 811 or step 812, a decision is made in step 813 as to whether there is sufficient information to make a decision as to the recommendation (step 311) or the guarantee (step 812). If there is sufficient information, a step 815 is performed. If there is not sufficient information, a step 814 is performed in which additional information is sought. After step 814, a step 817 is performed in which a

15 determination is made as to whether there is sufficient information. If there is still not enough information, there is a gracious exit to the process. If there is now sufficient information, step 811 or step 812 is performed.

In step 815, transaction management and financial services system 100 transmits a credit recommendation and/or guarantee to a seller. In an

20 exemplary embodiment, the recommendation and/or guarantee is communicated to seller via the Internet. In another embodiment, transaction management and financial services system 100 transmits the application for trade credit to external entities that provide credit guarantees. After step 815 is performed, a step 820 is performed in which the seller accepts or rejects the credit recommendation or

25 guarantee made by transaction management and financial services system 100. In another embodiment, seller does not notify transaction management and financial services system 100 of its acceptance or rejection. If seller communicates to system 100 an "accept", a step 824 is performed in which the buyer is notified of the acceptance of the trade credit approval. In an exemplary embodiment, an account is

30 created for the buyer in transaction management and financial services system 100. Upon notification of the approval of the buyer's request for trade credit, a step 825 is performed in which a purchase order (PO) is created by the buyer's accounting

system and transmitted to the transaction management and financial services system 100.

In an exemplary embodiment, the PO is forwarded to transaction management and financial services system 100 using the Internet. In another embodiment, a paper based PO is forwarded to transaction management and financial services system 100 and transaction management and financial services system 100 converts the PO to electronic format, electronic format including images. In another embodiment, the purchase order is transmitted buy the buyer directly to the seller. In an exemplary embodiment, the purchase order is created in transaction management and financial services system 100. In another embodiment, a purchase order is created using the capabilities of a business to business e-commerce marketplace, and transmitted to either the seller, to transaction management and financial services system 100, or both. In all cases, the receipt of a purchase order by transaction management and financial services system 100 from a buyer, a business to business e-commerce marketplace, or any other source, other than from the seller, triggers transaction management and financial services system 100 to forward the purchase order to the seller. In an exemplary embodiment, transaction management and financial services system 100 transmits the purchase order to the seller using the Internet.

After step 825, a step 830 is performed in which the seller fulfills the terms of the purchase order. After step 830, a step 835 is performed in which the seller creates an invoice for the product or service created or performed in fulfillment of the purchase order. In an exemplary embodiment, the invoice can be created using transaction management and financial services system 100. In this case, transaction management and financial services system 100 provides a step 836 in which seller initiates a transmission from transaction management and financial services system 100 which is formatted by transaction management and financial services system 100 to allow seller to electronically update its accounting system located at a remote device. After step 836, a step 837 is performed in which transaction management and financial services system 100 forwards the invoice to the buyer, with any additional commercial transaction information, such as shipping

information. In an exemplary embodiment, the invoice and additional commercial transaction information is forwarded to the buyer using the Internet. In another embodiment the invoice is created using the functionality of a business to business e-commerce marketplace, and transmitted to the buyer and transaction management and financial services system 100 using the Internet.

In yet another embodiment, the invoice is created using the functionality of a business to business e-commerce marketplace, and is sent only to the buyer. In still another embodiment, the invoice is created using the accounting system of seller and the seller forwards the invoice and other commercial transaction information, such as shipping information, to the buyer. In still another embodiment, the invoice is created using the accounting system of seller and the seller forwards the invoice and other commercial transaction information to the buyer and to transaction management and financial services system 100. In an exemplary embodiment, the seller forwards the invoice and additional commercial transaction information to transaction management and financial services system 100 and the buyer, using the Internet.

In another embodiment, the seller forwards a paper based invoice and other commercial transaction information to transaction management and financial services system 100 and transaction management and financial services system 100 converts the paper-based invoice and other commercial transaction information to electronic format, electronic format including images. After step 837, a step 840 is performed in which the customer pays transaction management and financial services system 100. In an exemplary embodiment, the customer pays transaction management and financial services system 100 electronically. Alternatively, the customer pays system 100 using a wire payment, check, credit card, cash, Internet account, or any other payment means. In one embodiment, transaction management and financial services system 100 receives an electronic payment, applies the payment to the invoices identified on the electronic remittance information and deposits the proceeds in the account of the seller. In another embodiment, a non-electronic based payment is received by transaction management and financial services system 100. In this embodiment, transaction management and financial

services system 100 will deposit the proceeds to the account of the seller, apply the payment in accordance with the remittance advice, and convert all paper based payment information, including check and remittance advice to electronic format, electronic format including images. In an exemplary embodiment, all payment  
 5 information, both electronic and paper based, is available through transaction management and financial services system 100. In another embodiment, all buyers and sellers can utilize functionality within transaction management and financial services system 100 to electronically update and reconcile accounting systems located at a remote device.

10 Advantageously, transaction management and financial services system 100 improves liquidity in the marketplace by providing real time or near real time trade credit underwriting services, accelerating the collection and cash application process through electronic and high volume paper based payment processing, improves transactional reporting and efficiency and reduces transaction  
 15 costs by providing a central electronic repository and electronic transaction management functionality for online and off-line commercial transaction information generated during interactions between buyers and sellers. Regardless of how trade credit requests are created and received, purchase orders are created and received, invoices are created and received, payments are created and received, transaction  
 20 management and financial services system 100, converts to electronic format, including images, commercial transaction documentation, applies all payments, closes all invoices and allows buyers and sellers to access all transaction information via the Internet, phone, or any other communication devices and vehicles. Also, because buyers and sellers can utilize functionality within transaction management  
 25 and financial services system 100 to electronically update and reconcile accounting systems located at remote devices, data entry and human error can be avoided, and buyers and sellers can be freed to focus on their core competencies.

If seller communicates to system 100 a “decline” of the trade credit recommendation in step 820, a step 855 is performed in which transaction  
 30 management and financial services system 100 provides a gracious notice that an extension of trade credit is unavailable at the time. In another embodiment, further

described below with reference to FIGURE 19, if insufficient information is available to transaction management and financial services system 100, at the time of a trade credit request, to provide an approval or guarantee of the trade credit request, transaction management and financial services system 100 initiates steps to  
 5 acquire additional information. In an exemplary embodiment, additional information is acquired using the Internet.

According to an exemplary embodiment, all of the steps in flow diagram 850 described with reference to FIGURE 8B can be performed via the Internet. Web pages and e-mail messages can be used to exchange the necessary  
 10 information between system 100 and buyers, sellers, financial institutions, business to business e-commerce marketplaces and other participants.

FIGURE 8C illustrates a flow diagram 870 of an exemplary process for obtaining credit insurance/guarantee in transaction management and financial services system 100. In the process, a step 875 is performed in which a request for  
 15 a trade credit guarantee is received from a trade credit guarantee seeking party. After step 875, a step 876 is performed, in which transaction management and financial services system 100 transmits the request for a credit guaranty to providers of credit insurance/guarantees, seeking bids from the providers of credit  
 20 insurance/guaranties to provide a guaranty on the submitted account. In a step 877, the providers of credit insurance/guaranties respond to transaction management and financial services system 100 with bids. In a step 878, transaction management and financial services system 100 transmits the most attractive bid to the credit guarantee seeking party. In a step 879, corresponding to step 820 (FIGURE 8B) the credit  
 guarantee seeking party accepts or rejects the offer.

25 FIGURE 8D illustrates a flow diagram 880 of an exemplary process of receiving and processing a request for a credit guarantee in transaction management and financial services system 100. In this process, transaction management and financial services system 100 receives a request for trade credit  
 30 guarantee from a trade credit guarantee seeking party in a step 887. In a step 888, system 100 matches the application information and any information residing in

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electronic storage devices of transaction management and financial services system 100, and feeds the data into an expert system designed to match the risk profile of the buyer against the underwriting guidelines of a plurality of providers of credit insurance/guaranties. If there is no match, a step 890 is performed, where

5 transaction management and financial services system 100 graciously declines the guaranty request. If, on the other hand, a match is found, steps 891 and 892 are performed, where transaction management and financial services system 100 notifies the matched provider of credit insurance/guaranties and the seller, that the request has been approved.

10                   FIGURE 9 illustrates a flow diagram 900 of an exemplary process for commercial transaction management in transaction management and financial services system 100. In a step 905, transaction management and financial services system 100 receives an invoice and additional commercial transaction information, such as shipping information and purchase orders, from a seller for management

15 within transaction management and financial services system 100. In one embodiment invoices and additional commercial transaction information can be received directly from a seller, via fax, email, direct input into transaction management and financial services system 100 or other delivery methods. In another embodiment, invoices and other commercial transaction documentation can

20 be received from a business to business e-commerce marketplace or other electronic market. Following receipt of an invoice, a step 910 is performed in which the invoice (if not in an electronic format) is converted to an electronic format and stored in transaction management and financial services system 100.

In a step 915, links, such as, hypermedia links to the electronic

25 document are made available to both the buyer and seller in the transaction via the Internet. An account summary for each participant is also updated to display the new invoice and provide links to information relevant to the invoice. In one embodiment, the account summary for a buyer includes all outstanding invoices owed, including all commercial transaction information for the invoices. In another

30 embodiment, the account summary for a seller includes an aged list of all invoices outstanding, the payee, and all commercial transaction information concerning the



invoices. Advantageously, as transaction management and financial services system 100 receives additional commercial transaction information, such as credit memos, payments, dispute notices, shipping information, etc., transaction participants can have instant and convenient access to all of the information for any given transaction via the Internet. In an exemplary embodiment, system 100 uses a web page to display the account summary and hypermedia links to other information related to the account.

Following the update of the account summary and display of links in step 915, a step 920 is performed in which the payor on the invoice is notified of the new remittance address and the online capability which is available through transaction management and financial services system 100. In an exemplary embodiment, notice is sent via the Internet. In another embodiment, notice is sent via mail, fax or other paper based formats. In another embodiment, the payor is emailed an electronic statement of their account, with hypermedia links to other information related to the account, as well hypermedia links to their account page within transaction management and financial services system 100. In an exemplary embodiment, the electronic statement of account contains electronic payment selectivity on an invoice specific basis. In another embodiment, the electronic statement of account contains hypermedia links to corporate bank account aggregation functionality. In an exemplary embodiment, this account aggregation functionality allows the payor to select the account to pay from, retrieve real time or near real time bank account information, and perform all online banking tasks from within transaction management and financial services system 100. In another embodiment, this account aggregation functionality allows the payor to select the account to pay from, as well as to utilize hypermedia links to selected online bank accounts.

In another embodiment, when a payor has “clicked” on a hypermedia link to an online bank account, transaction management and financial services system 100 communicates appropriate security codes and certificates to the financial institution and directly accesses, from within the financial institution’s web site, online bank account information with “one click” of a mouse. In another

embodiment, the electronic statement of account contains electronic dispute selectivity on an invoice specific basis. In an exemplary embodiment, the payor can click on any invoice and begin dispute resolution procedures. Dispute resolution is described further below with reference to FIGURE 28. In another embodiment,

5 transaction management and financial services system 100 mails and faxes a paper based account statement. In another embodiment, payor is sent paper based invoice information. In an exemplary embodiment, invoice information can be sent via email, fax, mail or any other method. Following this contact, a step 922 is performed in which the payor either submits payment or not. If the payor submits

10 payment, a step 925 is performed in which the payment is received by transaction management and financial services system 100. In an exemplary embodiment, payment is received electronically via wire, ACH, electronic check, or some other electronic payment mechanism. In another embodiment, payment is received via mail and consists of a paper check, or some other paper based payment mechanism.

15 Next, a step 930 is performed in which the account summary is updated to reflect the payment of the account.

In an exemplary embodiment, the electronic payment is accompanied by an electronic remittance advice and the payment is applied electronically. In another embodiment, a paper based payment and remittance advice is received, and

20 is applied directly into transaction management and financial services system 100. In an exemplary embodiment, the information displayed on the web pages for both the payee and the payor are automatically updated to reflect payment information, including images. Advantageously, displaying the information in an easy to use format allows the parties involved in the transaction to have current and matching

25 records for all transactions.

In a step 935, transaction management and financial services system 100 stores the transaction in an electronic storage device. All information relevant to the transaction enhances participant profiles. For example, the profile would include whether the payor paid on time, paid in full, disputed the invoice, etc. The

30 profile would also include whether the payee shipped the goods on time, shipped a complete order, etc. Advantageously, by storing this information, a customer

profile can be used to analyze the payee or payor for future transactions or financing decisions, or to customize marketing campaigns, content, screen display, etc.

If the payment made is determined to be a full payment of an invoice in a step 937, a step 940 is performed in which the invoice is closed and the invoice summary is updated to reflect the invoice as paid in full. If the payment is not a full payment, step 920 is repeated in which the payor is contacted to identify the reason for the short payment. Based on the feedback from the payor, either step 945, dispute resolution, or step 950, alternative collection method, are initiated. In one embodiment, the remittance advice received in step 925 may identify the reason for the short payment, and either step 945, dispute resolution, or step 950, alternative collection method, are initiated. If the payor does not pay the account in step 922, after being contacted in step 920, and initiating dispute resolution step 945, transaction management and financial services system 100 and the payee determine if necessary to initiate alternative collection method 950. In an exemplary embodiment, all steps in flow diagram 900 can be performed via the Internet. Alternatively, phone, fax, mail and other conventional methods of communication may also be utilized.

FIGURE 11 illustrates a flow diagram 1100 of an exemplary process of providing trade credit recommendations and guarantees over the Internet through transaction management and financial services system 100. In a step 1110, a seller provides its standard selling terms and credit history, including credit guidelines and goals to transaction management and financial services system 100. After step 1110, a step 1120 is performed in which a buyer selects goods to purchase from seller. In an exemplary embodiment, the buyer selects goods via web pages on the Internet. After step 1120, a step 1125 is performed in which system 100 determines whether a recommendation or guarantee has been required by the Seller. If a recommendation has been required by Seller, a step 1130 is performed in which system 100 evaluates the buyer and provides a recommendation of trade credit for the buyer, based on the custom credit engine of transaction management and financial services system 100, which incorporates the credit goals and guidelines established by the seller. Alternatively, the Seller may not specify credit guidelines

and goals, but rather the Seller may rely entirely on system 100 for its credit strategy.

Alternatively, if a guarantee is required by Seller, a step 1140 is performed in which transaction management and financial services system 100 can  
 5 guarantee the buyer's ability to pay its obligation to seller, described further with reference to FIGURES 8C-D. In an exemplary embodiment, digital certificate, PKI or other verification technology is used to confirm the identity of the buyer.

After step 1130 or 1140, a step 1160 is performed in which the buyer receives the purchased goods or services. After step 1160, a step 1170 is performed  
 10 in which the buyer pays transaction management and financial services system 100 and transaction management and financial services system 100 pays the seller. In an exemplary embodiment, payment by the buyer to transaction management and financial services system 100 and payment by transaction management and financial services system 100 to the seller is done electronically. In an alternative  
 15 embodiment, either the payment of the buyer to transaction management and financial services system 100 or the payment of transaction management and financial services system 100 to seller is done in a non-electronic fashion.

The exemplary method described with reference to FIGURE 11 has the advantage of automating and making instantaneous the process of obtaining trade  
 20 credit recommendations and guarantees. It also has the advantage of providing automated trade credit analysis in a user-friendly format over the Internet. The credit recommendation can be instantaneously generated. Credit analysis is handled entirely by transaction management and financial services system 100. Conventionally, a buyer seeking a trade credit approval goes through a time  
 25 consuming process to obtain approval. A buyer in the conventional process has to submit credit information to the seller, and wait for a response from the seller. Responses can often take hours and days. The seller also faces delays and risks in the conventional process. Sellers, who often have little credit experience, are forced to receive and analyze credit information from buyers. In addition, given the  
 30 limited amount of information which is available to many sellers, references are

often checked. The process of requesting and reviewing trade references can often take several days. In addition, it often lacks value, as buyers only provide their best references. The time delay and limited credit skills of many sellers creates inefficiency, friction and risk in the marketplace which is eroded by the introduction of transaction management and financial services system 100.

Advantageously, in transaction management and financial services system 100, the credit recommendation or guarantee is generated, in part, based on stored customer data including both external information and an internal transaction history. This information used in transaction management and financial services system 100's credit engine to determine if buyers qualify for trade credit. As the recommendation or guarantee can be instantaneously communicated to the buyer/seller via the Internet, liquidity in the marketplace improves. In addition, risk is reduced as transaction management and financial services system 100 brings expert knowledge and leadership, and possibly credit guarantees, to trade credit analysis.

FIGURE 12 illustrates a flow diagram 1200 of an exemplary process for customizing the appearance and content of a web page using transaction management and financial services system 100. In a step 1210, system 1200 receives a signal from a remote processing device. In an exemplary embodiment, the signal can come from the personal computer or mobile phone of a buyer, seller or other participant in transaction management and financial services system 100. After step 1210, a step 1220 is performed in which transaction management and financial services system 100 determines the identity of a buyer and the method of access to transaction management and financial services system 100.

After step 1220, a step 1230 is performed in which transaction management and financial services system 100 initiates personalization services in conjunction with profiling module 303, described with reference to FIGURE 3. In an exemplary embodiment, step 1230 will retrieve a profile of the identified buyer from profiling module 303. The profile can either be specific to the company participant, or an individual user within the company. The profile, among other

identifiers, includes information concerning any relationships in any way linked to the participant. In one embodiment, a linked relationship includes the referring party that referred the participant. In an exemplary embodiment, the appearance and content is customized based on the retrieved profile, and is displayed via a web page. In another embodiment, the content displayed on a remote processing device is customized based on the identification of the type of remote processing device which is accessing transaction management and financial services system 100. Advantageously, transaction management and financial services system 100 delivers real time customized and targeted content, advertisements and marketing campaigns to all participants in transaction management and financial services system 100 based on the profile established for each participant.

FIGURE 13A illustrates a flow diagram 1300 of an exemplary process of participant access to transaction management and financial services system 100. In a step 1310, a new participant accesses system 100 via a website using a web browser. After step 1310, in one embodiment, a step 1320 is performed in which the new participant clicks on a link to a referring party of system 100. A referring party can be bank, an independent lender, an insurance company, a leasing company, a governmental group (e.g, local, state, federal, international), a business to business web portal or e-commerce marketplace or any party that may benefit from the transaction management and financial services provided by system 100, or that has entered into a marketing relationship with transaction management and financial services system 100. In another embodiment, the new participant does not click on a link. In an exemplary embodiment, such a link is hypermedia text of images.

After step 1320, a step 1330 is performed in which the web browser requests an HTML page with a uniform resource locator (URL) identifying transaction management and financial services system 100 and the selected referring party. After step 1330, a step 1340 is performed in which transaction management and financial services system 100 receives the browser request, retrieves an HTML page customized for the identified transaction management and financial services system 100 and referring party based on the received signal. After step 1340, a step

1350 is performed in which transaction management and financial services system 100 transmits customized pages to the participant's remote access device. After step 1350, a step 1360 is performed in which user's remote access device receives and displays customized pages. In an exemplary embodiment, a new participant can  
 5 access transaction management and financial services system 100 using any remote access device. In another embodiment, transaction management and financial services system 100 identifies the type of device being used to access transaction management and financial services system 100, or the screen display capability of the remote access device, and transaction management and financial services system  
 10 100 modifies the type and format of information transmitted to the remote device to enable universal access to transaction management and financial services system 100.

FIGURE 13B illustrates a flow diagram 1370 of an exemplary process of participant access to transaction management and financial services system 100. In a step 1371, a new participant accesses system 100 via a link on the web site of any party (linking party) seeking to offer any one of the service offerings of transaction management and financial services provided by system 100, on a private label basis, or otherwise. After step 1371, in one embodiment, a step 1372 is performed in which the new participant clicks on a link to a referring party of  
 20 system 100. Alternatively, the linking party may choose to offer the products and services of system 100 without offering links to referring parties. In this embodiment, the linking party is the referring party. A referring party can be bank, an independent lender, an insurance company, a leasing company, a governmental group (e.g, local, state, federal, international), a business to business web portal or  
 25 e-commerce marketplace or any party that may benefit from the transaction management and financial services provided by system 100, or that has entered into a marketing relationship with transaction management and financial services system 100. In an exemplary embodiment, such a link is hypermedia text of images.

In an exemplary embodiment, the referring party can be a party  
 30 which directly provides similar products and services similar to those provided by system 100. Advantageously, a user accessing system 100 via a linking party has

access to a plurality of providers of commercial transaction management services, trade credit analysis services, credit guaranteeing services, and financing services. This access to a plurality of providers of these services creates competition in the marketplace, increases scale, improves marketplace efficiency, reduces transaction costs, and allows the linking party to maintain a service affiliation with users.

After step 1372, a step 1373 is performed in which the web browser requests an HTML page with a uniform resource locator (URL) identifying transaction management and financial services system 100 and the selected referring party. After step 1373, a step 1374 is performed in which transaction management and financial services system 100 receives the browser request, retrieves an HTML page customized for the identified transaction management and financial services system 100, the referring party and the linking party, based on the received signal. After step 1374, a step 1375 is performed in which transaction management and financial services system 100 transmits customized pages to the participant's remote access device. After step 1375, a step 1376 is performed in which user's remote access device receives and displays customized pages. In an exemplary embodiment, a new participant can access transaction management and financial services system 100 using any remote access device. In another embodiment, transaction management and financial services system 100 identifies the type of device being used to access transaction management and financial services system 100, or the screen display capability of the remote access device, and transaction management and financial services system 100 modifies the type and format of information transmitted to the remote device to enable universal access to transaction management and financial services system 100.

Advantageously, the method described with reference to FIGURE 13B allows the linking party to offer the product and service offerings of transaction management and financial services system 100, while maintaining a customer service affiliation with its participants, by offering its participants a choice of firms, in step 1372, offering the products and service offered by transaction management and financial services system 100. In one embodiment, all referring parties utilize transaction management and financial services system 100 on a private label basis.



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In another embodiment, the referring parties offer the services in affiliation with transaction management and financial services system 100. In yet another embodiment, the referring parties include firms that offer their own proprietary products and service offerings, these offerings being similar in nature and competing with any one of the product and service offerings of transaction management and financial services system 100. In an exemplary embodiment, transaction management and financial services system 100 acts as an aggregator of financing services, trade credit underwriting and analysis services, credit guaranty services and commercial transaction management services. Commercial transaction management can include any step involved in the billing, payment, settlement, reconciliation, modification, maintenance and conclusion of commercial transactions. Aggregation can include the identification of providers of financing, trade credit underwriting and analysis, commercial transaction management, credit guarantees, and the delivery of access to these providers through an accessible medium, such as the Internet.

Advantageously, this allows e-commerce marketplaces to offer trading participants, including buyers and sellers, a choice of providers of services which are critical to any one of; the facilitation of commercial transactions (trade credit analysis and guarantees), the management of commercial transactions, the maintenance of commercial transactions, the modification of commercial transactions, and the conclusion of commercial transactions, while maintaining an affiliation with trading participants. Maintaining an affiliation with trading participants, as opposed to third party vendors - which may help facilitate trade - is important to the acceptance of most e-commerce marketplaces, especially, where the vendors that help facilitate trade are offering services which are transactional in nature, or where subjective vendor analysis criteria are used in vendor selection, such as; the geographic location off the vendor, the perceived service quality of the vendor, the perceived stability of the vendor, or whether the participant has an existing relationship with the vendor. In addition, the above described aggregation promotes competition, which in turn drives down costs, may increase efficiency and ultimately, further reduce transaction costs. The outcomes of this competition are

better service, lower costs and improved liquidity, all, deepening value to e-commerce marketplace participants.

FIGURE 13C illustrates a flow diagram 1380 of an exemplary process of participant access to transaction management and financial services system 100. In a step 1390, a new participant accesses system 100 via a referring party's web site. In an exemplary embodiment, such a link is hypermedia text of images. After step 1390, a step 1391 is performed in which the web browser requests an HTML page with a uniform resource locator (URL) identifying transaction management and financial services system 100 and the referring party. After step 1391, a step 1392 is performed in which transaction management and financial services system 100 receives the browser request, retrieves an HTML page customized for the identified transaction management and financial services system 100 and referring party based on the received signal. After step 1392, a step 1393 is performed in which transaction management and financial services system 100 transmits customized pages to the participant's remote access device. After step 1393, a step 1394 is performed in which user's remote access device receives and displays customized pages. In an exemplary embodiment, a new participant can access transaction management and financial services system 100 using any remote access device. In another embodiment, transaction management and financial services system 100 will identify the type of device being used to access transaction management and financial services system 100, or the screen display capability of the remote access device, and transaction management and financial services system 100 will modify the type and format of information transmitted to the remote device to enable universal access to transaction management and financial services system 100.

Advantageously, the processes described with reference to FIGURES 13A-13C allow the web page to be customized to feature the brand of the referring party or the linking party. This customization allows the referring party and/or the linking party to maintain brand exposure with referred parties and parties targeted/identified by transaction management and financial services system 100 independent of linking and referring parties. In an exemplary embodiment, the web

page includes only the source indication of the referring party or the linking party. In another exemplary embodiment, the web page includes an indication of the source of transaction management and financial services system 100 in addition to the referring party, or the linking party. In another embodiment, multiple partners are

5 able to offer the operational capabilities of transaction management and financial services system 100.

This multi-partner marketplace model, described further with reference to FIGURE 2, begets additional embodiments. In another embodiment, transaction management and financial services system 100 partners with electronic

10 portals seeking to offer transaction management and financial services system 100's operational solutions to their participants. Electronic portals are any one of B2B e-commerce marketplaces, destinations on the Web that deliver content through web pages or any other Web destination that delivers content. In this embodiment, the portals' participants have a plurality of choice of service providers to choose from

15 that offer the operational functionality of transaction management and financial services system 100. Advantageously, the portal maintains an affiliation with its participants, rather than a single service provider, while transaction management and financial services system 100 partners gain the benefit of an additional distribution channel.

20 FIGURE 13D is a flow diagram 1300D illustrating operational aspects of an exemplary embodiment of transaction management and financial services system 100 in partnership with electronic portals. In one embodiment, business entities have established electronic portals 1306, 1307, and 1308. These electronic portals have business customers 1301, 1302, 1303, 1304, and 1305. In

25 one embodiment, electronic portals 1306, 1307, and 1308 seek to provide commercial transaction management services to customers 1301, 1302, 1303, 1304, and 1305. Not wanting to invest in the development of the commercial transaction management services, electronic portals 1306, 1307, and 1308 partner with transaction management and financial services system 100, to provide the

30 commercial transaction management services. In one embodiment customers 1301, 1302, 1303, 1304, and 1305, of electronic portals 1306, 1307, and 1308, seeking

the commercial transaction management services provided by transaction management and financial services system 100 click on a link to transaction management and financial services system 100 on the electronic portals' web site. In an exemplary embodiment, such a link is hypermedia text of images. In another embodiment, a new participant can access transaction management and financial services system 100 using any remote access device. In another embodiment, transaction management and financial services system 100 identifies the type of device being used to access transaction management and financial services system 100, or the screen display capability of the remote access device, and transaction management and financial services system 100 modifies the type and format of information transmitted to the remote device to enable universal access to transaction management and financial services system 100. In another embodiment, the customized pages transmitted to customers 1301, 1302, 1303, 1304, and 1305 include links to marketplace 201 and 203 (described with reference to FIGURE 2), associated with financial institution 231 and 232 (described with reference to FIGURE 2).

In an exemplary embodiment, customers 1301, 1302, 1303, 1304, and 1305 may choose to use the commercial transaction management services of marketplace 201 or 203, associated with financial institution 231 and 232, described with reference to FIGURE 2. In another embodiment, marketplace 201 and 203 would also be affiliated with electronic portal 1306, 1307, or 1308. In yet another embodiment, the only affiliation is with electronic portal 1306, 1307, or 1308.

Advantageously, by offering customer 1301, 1302, 1303, 1304, and 1305 a choice of operational service providers, electronic portals 1306, 1307, and 1308 foster the perception of affiliation with customers 1301, 1302, 1303, 1304, and 1305. In addition, partners of transaction management and financial services system 100, in this case financial institutions 231, 232 gain access and brand exposure to new prospects. Further, commercial transaction management services of transaction management and financial services system 100 provide the additional benefit of delivering access and brand exposure to buying communities 1321, 1322, 1323, 1324, and 1325 of businesses 1301, 1302, 1303, 1304, and 1305.

Advantageously, buying communities 1321, 1322, 1323, 1324, and 1325 are likely to include many new prospects with whom financial institution 231, 232 and electronic portal 1306, 1307, and 1308 may not have otherwise had access. Advantageously, the customization and profiling which are part of transaction management and financial services system 100 allow the delivery of highly customized and targeted information. As such, the services and tools allow branding and targeted marketing to enhance prospect penetration, as discussed above. Another advantage is that the relationship between system 100 and buying communities 1321-1325 can result in relationships with buying communities 1311-1315 further deepening brand access, exposure, and market penetration for electronic portals 1306-1308 and/or financial institution 231 or 232.

FIGURE 14 illustrates a flow diagram 1400 of a front-end system for transaction management and financial services system 100. The front-end system receives and translates into usable form all applications for trade credit or financing, invoices, purchase orders or other commercial transaction information or ancillary commercial transaction information. In an exemplary embodiment, an application for financing and trade credit approval can arrive from participant 1401, via e-mail through web portal 1402, a fax 1403, a telephone 1404 or from a hard copy 1405. If the application is forwarded to transaction management and financial services system 100 in an electronic format in a step 1410, it is forwarded automatically to a web portal in a step 1450. If the application is received by fax in a step 1420, the fax is converted to electronic format in a step 1425. Following conversion, a step 1427 is performed in which the data is checked to see if the conversion was successful. If the conversion is satisfactory, the application which is now in electronic format is then forwarded to web portal in step 1450. If the conversion is not satisfactory, then the application is forwarded to a step 1435 wherein it is manually entered into system 100. If the application is received by telephone in a step 1430 or by mail in a step 1440, the application is forwarded to step 1435 in which it is manually entered into system 100. This electronic document is then forwarded to the web portal in step 1450.

FIGURE 15 illustrates a flow diagram 1500 of an exemplary process for front end processing of the application received in the steps described with reference to FIGURE 14. Front end processing flow chart 1500 receives information from web portal (FIGURE 14). An example of the information transferred in an application can include financial statements, prior completed applications, trade references, or any other information on the applicant. In a step 1505, data received from web portal (FIGURE 14) is entered into a front-end platform. Next, in a step 1510, the application request is flagged as being received directly; without a referral; from a referring party seeking continued brand exposure to referrals; or from a referring party seeking to offer services on a private label basis from transaction management and financial services system 100. Following step 1510, a step 1515 is performed in which the application received is flagged as either an application for financing, an application for trade credit, or any other type of application.

Next, in a step 1520, the company making the request is analyzed to determine whether the company has already been analyzed by or participated in transaction management and financial services system 100. In a step 1525, a determination is made as to whether this is an existing or prior client, a client being a participant utilizing financing operations of transaction management and financial services system 100. If the applicant is not a prior client, a step 1530 is performed where it is determined if the applicant is an existing or prior customer (buyer). If the applicant is not an existing or prior customer, a step 1535 is performed in which it is determined whether the applicant is an existing or prior trade credit account.

If the customer making the request is not an existing or prior trade credit account, a step 1540 is performed. In step 1540, an identification verification and fraud screen is performed based on the information in the request and an analysis of the company. In a step 1545, the company either passes or fails the identification and fraud screen. If the company fails the screen, a determination is made in a step 1550 whether this screening is the first or second attempt. If this screening is the first attempt, a step 1555 is performed where the customer is contacted for additional information. Following the submission of additional

information, the identification verification and fraud screen at step 1540 is repeated. If step 1550 shows that the identification verification and fraud screen in step 1540 was failed in a second attempt, a step 1560 is performed in which the customer is rejected or declined. If the identification verification and fraud screen in step 1540 is passed in step 1545, a step 1580 is performed where the system forwards the application through the appropriate process, based on the type of application. In one embodiment, the process is identical through this point, but will differ from this point on, based on the type of application received (trade credit request, financing request, etc.). In another embodiment, if the request is a request for factoring services, the request is forwarded to steps illustrated in a flowchart 1600 described below with reference to FIGURE 16A. If the request is a request for trade credit, the request is forwarded to steps illustrated in a flowchart 1800 described with reference to FIGURE 18.

If any of the determinations made in steps 1525, 1530 or 1535 are affirmative, such that the system already has information on the customer, a step 1565 is performed in which transaction management and financial services system 100 obtains historical data from the electronic storage facility, including existing records for applicant. Next, a step 1570 is performed in which the records obtained in step 1565 are attached to the application. Following this attachment, a step 1575 is performed in which the obtained records and application are reviewed for problem flags. In one embodiment, problem flags are potential problem areas identified by transaction management and financial services system 100 with existing participants. In another embodiment, problem flags may exist for new applicants based on industry, company size or other identifiers delineated by transaction management and financial services system 100. Following this review, a step 1580 is performed where the system forwards the application through the appropriate process, based on the type of application.

In one embodiment, if the request is a request for factoring services, the request is forwarded to flowchart 1600 described with reference to FIGURE 16A. If the request is a request for trade credit, the request is forwarded to flowchart 1800 described below with reference to FIGURE 18. Advantageously,

additional information can be automatically obtained in step 1565, thereby eliminating a large time burden associated with manual application processes. In another embodiment, the applicant is a financing seeking party, referred by a referring party, and the application forwarded is, in whole or in part, the application  
 5 completed by applicant, for referring party. Advantageously, applicant is not required to complete another application.

FIGURE 16A illustrates a flow diagram 1600 of exemplary steps in a factor underwriting process in transaction management and financial services system 100. A request containing attached records and problem flags is received from step  
 10 1580 in flowchart 1500 (FIGURE 15). Upon receipt of the request, a step 1605 is performed in which the problem flags are reviewed in a step 1610 and compared to business rules to determine whether or not the problem flags are a “deal killer”. If the problem flags are a “deal killer”, step 611, alternative screening process takes place, in which an alternative solution is reviewed (described with reference to  
 15 FIGURE 16B).

FIGURES 16B and C illustrate a flow diagram 1698 and 1699 of exemplary steps in exemplary alternative screening processes for finding funding sources. In FIGURE 16B, step 1680, transaction management and financial services system 100 has already determined that the application for financing does  
 20 not meet the credit profile of transaction management and financial services system 100. In this step, transaction management and financial services system 100 matches the application data to the underwriting guidelines of a plurality of alternative financing providers. In a step 1391, system 100 determines whether one or more matches exist. After step 1391, steps 1692 and 1693 are performed where  
 25 system 100 notifies the alternative financing party and the financing seeking party of the match. The alternative financing party (AFP) and the financing seeking party (FSP) then negotiate terms of financing and conclude their financing arrangement in step 1694. In one embodiment, the approval is provided on a private label basis, reflecting the brand of transaction management and financial services system 100  
 30 and the referring party. In another embodiment, the financing is managed through transaction management and financial services system 100, but is provided by the



alternative financing provider in affiliation with transaction management and financial services system 100.

In FIGURE 16C, a step 1612C is performed in which transaction management and financial services system 100 transmits the application information to a plurality of alternative financing providers (AFP) for review and analysis. In a step 1613C, the alternative financing providers receive and process the application for approval. In a step 1614C, transaction management and financial services system 100 receives the bids for financing and transmits the bids to the financing seeking party. In a step 1615C, the financing seeking party (FSP) selects the bid it would like to accept. In a step 1616C, the acceptance is communicated to the alternative financing provider, and in a step 1617C, the financing seeking party and the alternative financing provider conclude their transaction. Advantageously, by offering a brokering engine for transactions which are not suitable for system credit exposure, transaction management and financial services system 100 can further maximize its value to its referral sources.

Referring now again to FIGURE 16A, after step 1611 is performed, if an alternative is found, step 1750, with reference to FIGURE 17 is performed. If no alternative solution can be found, a step 1613 is performed in which the applicant moves through the reject or decline process 1613. If the problem flags are not a deal killer, a step 1615 is performed where a pricing model is run, where sufficient information exists to feed the pricing model, to determine the viability of the applicant based on profitability and cost to the applicant. If the pricing is determined not to be viable, applicant is subjected to reject or decline process 1613. If the pricing is deemed viable, then the applicant is forwarded through different processes, based on whether it is an existing financing participant. An existing financing participant is a participant in transaction management and financial services system 100 that is obtaining financing from or through transaction management and financial services system 100. If the applicant is an existing participant, a step 1635 is performed in which the account executive is notified of the existence of the request. This may occur when an existing participant, utilizing financing operations of transaction management and financial services system 100

seeks financing from a third party. If transaction management and financial services system 100 has a relationship with the third party, and the third party is offering the services of transaction management and financial services system 100 on a private label basis, transaction management and financial services system 100 can be

5 requested to provide services to a participant already receiving those services from transaction management and financial services system 100. Following notification, a step 1640 is performed in which the account executive contacts the customer. If appropriate, the account executive generates an offer based on the new circumstances. Simultaneously, applicant may receive an offer utilizing the brand of

10 the referring party.

If the client is not an existing client, the application is examined in a step 1650 to determine if it is complete. If it is not complete, a step 1655 is performed in which any issues are logged into the system. Following step 1655, a determination is made in a step 1660 whether complete financial information for that

15 applicant is already on file. If transaction management and financial services system 100 does not have complete financial information for the applicant, the screening agent contacts the applicant in a step 1665. Following the contact, the applicant may submit complete financial information in a step 1670. If the application is determined to be complete in step 1650 or the financial information is determined to

20 be on file in step 1660, a determination is made in a step 1675 whether the financial statements have been “spread”. Spreading the financial information involves transferring discrete information into an electronic format and organizing it into useful categories. If the financial statements have not been “spread” or the statements were obtained from the customer in step 1670, the financial information

25 is “spread” in a step 1680.

FIGURE 17 illustrates a flow diagram 1700 of exemplary steps in a factor underwriting process in transaction management and financial services system 100. Flow diagram 1700 receives financial statements that have been spread into usable form from step 1680 or step 1675 described with reference to FIGURE 16A.

Following the receipt of the financial information, the information is entered into an expert system in a step 1705. If the applicant is not an existing participant, a step 1715 is performed in which transaction management and financial services system 100 requests credit reports for the applicant and makes UCC searches for any commercial filing related to that applicant. If the applicant is determined to be an existing participant in step 1710, a check is made in a step 1720 to determine whether the information on file is current. If the information is not current, step 1715 is performed for the existing participant to update the information.

System 100 then runs a rule-based model in a step 1725 using the information either obtained in step 1715 or that was already on file for the existing applicant. The purpose of this rule-based model is to approve the applicant for financing. The analysis is examined in a step 1735. If the applicant is determined not to be acceptable in either step 1720 or 1735, a step 1740 is performed in which the issues are logged into system 100, and forwarded to step 1745, for further review.

If the determination in step 1745 is that the applicant does not need to be reviewed, based on the existing customer log or external issues, a step 1750 is performed in which the request is either approved or declined based on the decision made by the expert system in step 1725 and 1735. If the review determines the request to be desirable, but further review is necessary, a step 1755 is performed in which the customer is contacted to gather additional information. After the customer is contacted, a step 1760 is performed in which additional information is gathered, entered into the system, and step 1725 is repeated. If additional information is not gathered, step 1750 is performed. Following step 1750, a step 1775 is performed in which the transaction is closed. In one embodiment, step 1775 includes a credit extension procedure, such as, the procedure described with reference to FIGURE 7C and step 750.

FIGURE 18 illustrates a flow diagram 1800 of exemplary steps in a trade credit underwriting process in transaction management and financial services

system 100. In an exemplary embodiment, the trade credit underwriting process receives a request containing the body of the request and attached historical data records and problem flags from step 1580 (described with reference to FIGURE 15).

5                   Upon receipt of the request, a step 1805 is performed in which the attached problem flags are examined and compared to the business rules for system 100. The comparison is examined in a step 1810 to determine if it is a “deal killer”, such that it would be uneconomical to proceed. If the examination and comparison reveal a problem that is a “deal killer”, a rejection process is performed  
10 in step 1560. If the problem is not a “deal killer”, an examination is made in a step 1815 to determine if the application in the body of the request is complete. If the application in the body of the request is not complete, a step 1820 is performed in which the customer is notified and allowed to update the application. Following step 1820, a step 1825 is performed in which the status of the request is determined.  
15 If the application attached to the request is complete, then a determination is made in a step 1830 whether the applicant is an existing participants.

                  If the applicant is not an existing participant, a step 1835 is performed in which system 100 obtains credit reports on the applicant. If the applicant is an existing participant, a determination is made in a step 1840 whether  
20 the information on file is current. If the information is not current, then step 1835 is performed and new credit reports are obtained.

FIGURE 19 illustrates a flow diagram 1900 of exemplary steps in a trade credit underwriting process in transaction management and financial services system 100. Flow diagram 1900 receives an application and information regarding  
25 the application from step 1835 or step 1840 (described with reference to FIGURE 18).

                  Upon receipt of the information on file or the information in the credit reports, a step 1905 is performed in which a determination is made in a step 1910 whether there is sufficient information to make a decision. If there is not  
30 sufficient information, a step 1915 is performed in which either the applicant is

contacted for additional financial statements or the financial statements on file are examined. If there is sufficient information on file to make a decision or if sufficient information is obtained, a step 1920 is performed in which a credit decision is generated.

5                   Following the generation of the credit decision, a determination is made in a step 1925 whether a manual review is required. If a manual review is required in step 1925, a step 1930 is performed in which the credit decision generated in step 1920 is validated. An accounts manager makes a determination in a step 1935 whether to concur with the credit decision. If the accounts manager  
10 does not concur with the credit decision, a step 1940 is performed in which a required approval for override is obtained. If a manual review is not required or the accounts manager concurs or the required approval is obtained in step 1940, a step 1945 is performed in which summary document is generated. This document is then forwarded to the applicant in a step 1950.

15                   Following the forwarding of the document to the applicant, the applicant has the option of requesting other services in a step 1955. If the applicant does not request additional services, a step 1960 is performed in which a bill is sent for services rendered. If the client does request additional services, a step 1965 is performed in which the customer is transferred to the appropriate process for the  
20 requested service in a step 1970.

Advantageously, the processes described with reference to FIGURES 14-19 provide for a flexible system handled by expert sub-systems and by the use of documents in electronic format. System 100 can deliver the majority of its services real time, meaning there is virtually no delay between a request for a  
25 service and the product of that service. Conventionally, certain operations, such as an analysis of a credit history, take a number of people conducting a number of inquiries. Delays are inherent to such conventional systems.

FIGURE 20 illustrates an exemplary display screen 2000 of a web page for transaction management and financial services system 100. Screen 2000 is  
30 displayed upon access of the web site from some source (e.g., a business to business

web site). In an exemplary embodiment, the user has chosen Chase as a financial institution. Screen 2000 includes two hypermedia links labeled “Log-on.” A hypermedia link 2010 provides access to a log-on procedure for buyers in transaction management and financial service system 100 and a hypermedia link 2020 provides access for sellers.

Exemplary display screen 2000 may display a source-indicating logo, a font, a layout and/or a color scheme designated by an associated financial institution. In an exemplary embodiment, the logo and links to services for transaction management and financial service 100 are not present on display screen 2000 and the web page content is entirely designated by the financial institution. In another embodiment, the logo and links to services for system 100 are prominently displayed. Advantageously, the financial institution has significant design input allowing the financial institution to maximize brand recognition, offer additional services, and provide targeted marketing to the participants.

FIGURE 20 also illustrates a financial institution specific tool bar 2030. Tool bar 2030 contains at least one hypermedia link 2040 to products or services from an associated financial institution. Tool bar 2030 may also contain images or advertisements from the associated financial institution. The content of the tool bar may also be modified to reflect the interests of the viewer currently viewing the display.

FIGURE 21 illustrates an exemplary display screen 2100 of a web page for transaction management and financial services system 100. Screen 2100 is displayed upon activation of hypermedia link 2010 labeled “Log-on” and described with reference to FIGURE 20. Screen 2100 includes an entry field 2110 labeled “Customer Number” and an entry field 2120 labeled “PIN”. Screen 2100 additionally includes hypermedia links 2130, 2140, 2150, 2160, and 2170. Hypermedia link 2130 labeled “Sign On” provides access to additional website screens of system 100. Hypermedia link 2140 labeled “Apply Now” provides access to a web page allowing the user to obtain a customer number and PIN (personal identification number) and thereafter access additional website screens.

Hypermedia link 2150 labeled “Forgot Your Pin?” provides access to a web page allowing access to website screens without properly filling the PIN field.

Hypermedia link 2160 labeled “Browser Test” provides access to a method for testing the compatibility between the browser viewing the web page and the web  
 5 pages for transaction management and financial services system 100. Hypermedia link 2170 labeled “Helpful Hints” provides access to a web page containing information about using system 100.

FIGURE 22 illustrates an exemplary display screen 2200 of a web page for transaction management and financial services system 100. Display screen  
 10 2200 is displayed upon completion of the log-in procedure described with reference to FIGURE 21. Display screen 2200 illustrates an account statement for an example user. In one embodiment, the account statement features columns containing pay selection boxes, dispute selection boxes, tracking fields, purchase order numbers, seller identities, invoice numbers, invoice dates, due dates, terms of the account,  
 15 and the balance of the account. The entries in the account statement can be sorted according to the entries in any of the columns. For example, the column labeled “Invoice Number” contains a list of invoice numbers 2210 which are hypermedia links to web pages containing an electronic copy of the invoice for that account. The column labeled “Tracking” contains a list of numbers 2220 which are  
 20 hypermedia links to a web page displaying tracking information for that account. At the bottom of the display screen is a button 2240 labeled “Dispute” and a button 2230 labeled “Pay”.

In one embodiment, system 100 acts as a bill aggregator for a Buyer and display screen 2200 illustrates an example of the display that a Buyer can access  
 25 to manage bills from a plurality of vendors. Bill information may be received directly from the vendor to system 100 either in electronic or non-electronic format. Alternatively, bills may be forwarded to system 100 from the Buyer.

Transaction management and financial services system 100 creates profiles for each customer and client that interacts with system 100. System 100  
 30 also creates a profile for each user associated with the marketplace. The profile is

based in part on unique information gathered by system 100 and in part on external information. The information stored can include the size of the business, number of years in operation, the industry of the business, the nature of the business including whether it manufactures, wholesales, distributes or retails the product it sells,  
 5 payment records, purchase records, banking records, credit record, and a summary of any transactions conducted in transaction management and financial services system 100.

FIGURE 23 illustrates an exemplary display screen 2300 of a web page for transaction management and financial services system 100. Display screen  
 10 2300 is displayed when a person viewing the web page clicks on hypermedia link 2040 in financial institution specific tool bar 2030 (described with reference to FIGURE 20). Display screen 2310 is displayed in a new window and includes a web page for a specific financial institution and information corresponding to the service or product listed in the hypermedia link selected from tool bar 2030.

FIGURE 24 illustrates an exemplary display screen 2400 of a web page for transaction management and financial services system 100. Display screen  
 15 2400 is displayed when a person viewing display screen 2200 (FIGURE 22) clicks on a hypermedia link in a list 2210 to display an electronic copy of an invoice. The opened window 2410 displays the electronic copy of the invoice 2420.

Advantageously, all of the traditionally required paper copies of required documents  
 20 can be accessed in a similar manner. In conventional systems, one has to place a call to the records division, have them retrieve the paper document from a file, and have them fax the document to the requesting party.

FIGURE 25 illustrates an exemplary display screen 2500 of a web page for transaction management and financial services system 100. Display screen  
 25 2500 is displayed when a person viewing display screen 2200 (FIGURE 22) clicks on a hypermedia link in list 2220 to display tracking information for an account. System 100 interfaces with major shipping carriers that offer online tracking, by accessing their web site, filling the appropriate fields, and retrieving tracking  
 30 information. The opened window 2510 displays tracking information from any



major shipping carrier offering on-line tracking of shipments. The person viewing display screen 2510 can access any of the functionality in the web site of the major shipping carrier. The contents of window 2510 can be stored or printed as proof of delivery. Advantageously, this process makes it easier to obtain this information and also facilitates the process of providing proof of delivery. In conventional systems, an accounts payable has to communicate with a person in shipping, wait for that person to retrieve a bill of lading, receive the bill of lading, contact the shipping company and finally receive tracking information.

FIGURE 26 illustrates an exemplary display screen 2600 of a web page for transaction management and financial services 100. Display screen 2600 is accessed from display screen 2200 showing an account summary. In an exemplary embodiment, display screen 2600 is displayed when the person viewing display screen 2200 checks a box in the column labeled "Pay" and then clicks on hypermedia link 2230 labeled "Pay." Display screen 2600 lists the accounts associated with boxes selected prior to clicking on hypermedia link 2230 and the associated tracking, purchase order, seller, invoice number, invoice date, due date, terms and balance information for those accounts. Display screen 2600 also includes an accounts field 2610 allowing the user to select an account from all of the banking or credit accounts that are logged with system 100 for the current user. The user can select which banking or credit account is to be used to pay the selected invoices. The user can also activate a hypermedia link 2620 labeled "Check Account" associated with each banking or credit account. Hypermedia link 2620 allows the user to check the current balance and available funds for that account. Activating hypermedia link 2620 opens a web page displaying information about the banking or credit account. In an exemplary embodiment, this web page is hosted and maintained by a financial institution corresponding to the account. In another embodiment, the web page is hosted and maintained by a centralized accounts managing provider.

Advantageously, display screen 2600 allows a user to see what accounts have been selected for payment and the total amount due for those accounts. The user can then check the balances or move funds within all of the

banking and credit accounts listed with system 100. As such, the user can manage all their accounts and payments from one easy location.

Another advantage offered by transaction management and financial services system 100 is that on-line bill payment is made more convenient. In conventional systems, users have to manually enter payment information for all vendors.

FIGURE 27 illustrates an exemplary display screen 2700 of a web page for transaction management and financial services system 100. Display screen 2700 is a version of display screen 2200 showing an account statement of a buyer. Screen 2700 illustrates the dispute resolution feature in system 100 that is selectively engaged when a person viewing display screen 2200 checks a box in the column labeled "Dispute". The amount due for that account is subtracted from a numerical field 2710 labeled "Total Due" and added to a numerical field 2720 labeled "Total Disputed". The user can then click on hypermedia link 2240 labeled "Dispute" to enter the dispute.

FIGURE 28 illustrates an exemplary display screen 2800 of a web page for transaction management and financial services system 100. Display screen 2800 is accessed from display screen 2700 described with reference to FIGURE 27. Display screen 2800 further illustrates the dispute resolution feature in system 100 in which the selected account to be disputed is displayed. Screen 2800 features information about the account as well as a column labeled "Dispute." The value in the "Dispute" column is originally undefined. When the user click on a hypermedia link 2810 labeled "Process Disputes," a display window 2820 is displayed.

Display window 2820 includes a selectable field 2821 labeled "Reason for Dispute:", and a text entry field 2822 labeled "Explanation:". In an exemplary embodiment, the user has the ability to select a reason for the dispute and then enter an explanation that will be communicated to the seller. After a selection is made in reason for dispute field 2821, the value in the "Dispute" column is updated to reflect this selection.

FIGURE 29 illustrates an exemplary screen display 2900 for the dispute resolution process from the point of view of a seller. The seller accesses screen display 2900 after logging in and accessing the report on disputed items. Screen 2900 features a list of all invoices for the seller that have been disputed by a buyer. For each item in the list, information fields display the customer name, the invoice number, the P.O. number, the invoice amount, the due date, the reason for dispute, and the status of the dispute. In an exemplary embodiment, each information field includes a hypermedia link to further information. Hypermedia link 2910 in the information column labeled "Reason for Dispute" facilitates the dispute resolution process for the seller. The text field in this column displays the reason for the dispute entered by the buyer in display screen 2820 described above and is also a hypermedia link 2910. When the seller clicks on hypermedia link 2910, a display window 2920 is displayed. Display window 2920 contains a text entry field 2921 labeled "Customer Comments:", a selectable field 2922 labeled "Response Options:", and a second text entry field 2923 labeled "Response Comments:." Field 2921 displays the text entered by the seller in text entry field 2822 described above. In an exemplary embodiment, the seller has the opportunity to select a response option and include an explanation for the response. This response is then communicated to the buyer.

Advantageously, the dispute resolution system described in FIGURES 28 and 29 makes dispute resolution easier to manage for both parties involved. In conventional systems, a party wishing to dispute an invoice has to attempt to contact the issuer of the invoice directly by phone or mail or any other method to contest the invoice. Then, the issuer of the invoice has to respond using some similar method. In system 100, all communications are handled by the system, the user simply needs to log the dispute, and the issuer of the invoice simply responds using the functionality described above.

FIGURE 30 illustrates an exemplary display screen 3000 displayed when the seller logs into transaction management and financial services system 100 from display screen 2000 by clicking hyperlink 2020 as described with reference to FIGURE 20. Screen 3000 includes information that may be relevant to a seller of

accounts. The statement includes information fields relating to the seller's account. In an exemplary embodiment, the information fields display Current Outstandings, Ineligible Receivables, Funds Employed, Current Availability, Pending Schedules, Disputed Items and Collections. Each information field may include a hypermedia  
 5 link to more information regarding the information in that field.

In an exemplary embodiment, display screen 3000 also features region 3010 labeled "Submit Invoices" containing two data entry fields labeled "From:" and "To:" and a button labeled "Submit". Screen 3000 additionally features region 3020 labeled "Advance Request" which contains one data entry field  
 10 3021 labeled "Amount:" and a button labeled "Submit". Screen 3000 additionally features region 3030 labeled "Credit Line Request" containing entry fields describing the customer, an entry field labeled "Amount of Request:" and a button labeled "Submit".

FIGURE 31 illustrates an exemplary display screen 3100. Display  
 15 screen 3100 features a pop up window 3110. Window 3110 is displayed when the user fills data entry field 3021 with a numerical value greater than the numerical value in the information field labeled "Current Availability" and then clicks on the submit button in region 3020. System 100 aids the user in obtaining alternative financing if the amount requested by the user is greater than the amount available.  
 20 In effect, the user is making a request for financing from transaction management and financial services system 100. If the amount requested is not greater than the amount the user has currently available, the request simply is granted and the information fields would be updated to reflect this change.

However, if the amount requested is greater than the amount the user  
 25 has available, window 3110 displays a selection field listing alternative financing methods that are available to the user. In an exemplary embodiment, window 3110 displays a list of selectable alternatives to the request along with a button labeled "Submit" and a button labeled "Cancel".

FIGURE 32 illustrates an exemplary system 3200 for implementing  
 30 the request for an advance that is greater than available funds transaction described

above with reference to FIGURES 29, 30, and 31 within transaction management and financial services system 100. System 3200 includes a client computer 3210, a web server 3220 hosting an applications environment 3230, an expert system 3240, a profiling system 3250, a customer database 3260, a customer profiling database 3270, and a underwriting risk database 3280. Application environment 3230 includes a credit design engine 3231, an underwriting application 3232, an account receivable management and invoicing engine 3233, a customer profiling engine 3234, a document management and storage engine 3235, a directory 3236, and a portfolio management engine 3237. Expert system 3240 includes a client lookup function 3241, business rules 3242, and a database of responses and options 3243. Profiling system 3250 includes a profiling manager 3251, business requirements and rules 3252, a publishing manager 3253, and a content manager 3254.

In an exemplary transaction using system 3200 illustrated in FIGURE 32, the user requests an advance as described above. The request from the client is sent from client computer 3210 to web server 3220. Web server 3220 delivers the request of a client to applications environment 3230. Within applications environment 3230, the request is processed by portfolio management engine 3237. Expert system 3240 is engaged or spawned by portfolio engine 3237 to evaluate the request. Expert system 3240 indexes that client in customer database 3260, and then compares that customer's request against business rules 3242 using information in underwriting risk database 3280. An example of a business rule can be a rule that any client that has a dilution of greater than 15% or that has greater than 15% of receivables that are older than 60 days, does not get an over advance. Expert system 3240 crafts an appropriate response that is communicated to client computer 3210.

In an exemplary implementation, the response detailed above can be stored in customer database 3260 and indexed into a stored database containing all of the transaction for that particular customer. In an exemplary embodiment, additional steps can be taken following a denial for an over advance to a customer. The customer can be profiled to determine whether the financial institution for that

person has any products or services that may be able to meet the needs for the customer.

If the customer requests an over advance and is denied, the customer profile is analyzed and compared to the requirements for any products and services offered by the financial institution chosen by the customer. If the requirements are met for any particular product or service, that product or service is offered to the user at the same time as the denial of the over advance request. System 100 is able to offer those services that are available to the customer at the time when they are most in need of the services.

In an exemplary embodiment, system 3200 references customer database 3260 for a particular customer. Profiling manager 3251 applies the customer information to business requirements and rules 3252 and compares the results to a set of requirements provided by the financial institution to determine which products and services are appropriate for that customer. Content manager 3254 contains banners and other information for the products and services that is delivered to publishing manager 3253. Publishing manager 3253 stores a record of the current web page and the best location for the display of the banners and other information for the products and services offered. Publishing manager 3253 also sends notice to customer database 3260 that an offer for products or services has been made. Because the customer database is continuously being updated with transactions and other information, the products and services available to the customer can change over time.

FIGURE 33 illustrates an exemplary display screen 3300 displayed when the buyer selects a seller listed in an account statement, such as the account statement described with reference to FIGURE 22. Display screen 3300 illustrates one example of the communication modality provided by system 100. In an exemplary embodiment, display screen 3300 includes contact information, such as e-mail address, mailing address, fax number, phone number, etc. Display screen 3300 can also include reports containing hypermedia links to commercial transaction information, such as invoices, seller information, tracking data, etc. as described

previously. Advantageously, display screen 3300 illustrates that the buyer can communicate with the buyer using fax or e-mail from within system 100. Customer information does not have to be retrieved from other sources, including personal computers, black books, network servers, or other external information sources. In addition, the fax and e-mail functionality of system 100 allows information to be automatically pre-populated and transmitted. For example, in one embodiment, a report can be attached to a fax or e-mail from within system 100 by selecting the report from a menu on display screen 3300. Advantageously, when sent in e-mail format, these reports include hypermedia links to commercial transaction information. In either fax or e-mail form, communication between participants is made more efficient and effective.

FIGURE 34 illustrates an exemplary display screen 3400 displayed when the buyer selects commercial transaction information to attach to a communication with another participant in system 100. Advantageously, attaching information that is pertinent to the communication improves the efficiency and effectiveness of the communication. Additionally, hypermedia links contained within the attached commercial transaction information further increase the efficiency and effectiveness of the communication.

FIGURE 35 illustrates an exemplary display screen 3500 identifying collection activity for a seller over a given period of time. Specifically, display screen 3500 includes all commercial transaction information relevant to a received payment, including the invoice being paid, date of payment, date of invoice, amount of payment, the name of the debtor making the payment, check number, invoice credits, etc. In addition, images of commercial transaction information can be accessed using hypermedia links. To illustrate some of the advantages relevant to the use of display screen 3500, the following example is given. If the invoice is not paid in full, a credit appears on display screen 3500. Clicking on hypermedia link 3510 or 3520 displays the image of the check and remittance advice in which a short payment was taken. One example image is illustrated in FIGURE 36.

FIGURE 36 illustrates an exemplary display screen 3600 of an image display of a check and a remittance advice from a debtor having made a payment directly to system 100. The image is displayed when a hypermedia link 3510 is selected from display screen 3500 (FIGURE 35). In the example described above, the seller identifies the short payment and seeks to obtain additional information for management purposes. For example, the seller may view an image of the invoice which was short paid by clicking on a hypermedia link 3530 (FIGURE 35). An exemplary invoice is illustrated in a display screen 3700 shown in FIGURE 37.

Having viewed the check and invoice, the seller may determine that the short payment was unauthorized. The seller can then communicate with the debtor. Advantageously, by clicking on the debtor name on the collection activity screen of display screen 3500, the seller can view a display screen 3800 illustrated in FIGURE 38. Display screen 3800 can include contact information for the debtor, such as e-mail address, mailing address, fax number, phone number, etc. Display screen 3800 can also include reports containing hypermedia links to commercial transaction information, such as invoices, debtor information, tracking data, etc. Advantageously, display screen 3800 illustrates that the seller can communicate with the debtor using fax or e-mail from within system 100. Debtor information does not have to be retrieved from other sources, including personal computers, black books, network servers, or other external information sources. Further, in one embodiment where the seller is trying to resolve an unauthorized short payment, the seller can easily attach invoice and payment information, including hypermedia links and/or images to a fax or e-mail initiated within system 100. As explained above with reference to FIGURES 33-34, communication between participants is made more efficient and effective.

While the embodiments illustrated in the FIGURES and described above are presently preferred, it should be understood that these embodiments are offered by way of example only. Other embodiments may include various processes for carrying out the functions described. Further, various data structures, networks, communication systems, and computing devices may be included or substituted for those described herein. The invention is not limited to a particular embodiment, but



[illegible]

**WHAT IS CLAIMED IS:**

1. In a transaction management and financial services system configured to communicate between a server and at least one remote device via a network, a method comprising:

receiving a referral from a referring party, the referral including  
5 information regarding any one of a financing-seeking party that has been declined by the referring party, a transaction management-seeking party, a trade credit-seeking party, and a credit guarantee-seeking party; and  
storing the information regarding the referral in a storage device.

10 2. The method of claim 1, wherein the referral is received from a credit processing center of a financial institution.

3. The method of claim 1, wherein the referral is received from any one of a centralized processing center of a financial institution, a centralized underwriting center of a financial institution, a financial institution, and an  
15 electronic commerce site.

4. The method of claim 1, further comprising determining whether the referral satisfies system-based parameters.

5. The method of claim 4, if the referral party does not satisfy system-based parameters, further comprising forwarding information regarding the referral  
20 to a third party.

6. The method of claim 4, if the referral satisfies system-based parameters and the referral is a financing-seeking party, further comprising determining whether the system already has sufficient information to engage the referral.

25 7. The method of claim 6, wherein the sufficient information comprises commercial transaction information.

8. The method of claim 7, wherein commercial transaction information comprises any one of invoices, purchase orders, shipping documentation, check copies, check remittance information, credit memos, time tickets, and other documentation associated with commercial transactions.

5 9. The method of claim 6, where there is not sufficient information to engage the referral, further comprising obtaining additional information from the referral.

10 10. The method of claim 6, where there is sufficient information to engage the referral and the referral is a financing-seeking party, further comprising providing a proposal for financing to the financing-seeking party.

11. The method of claim 10, further comprising receiving a response to the proposal from the financing-seeking party.

12. The method of claim 11, if the received response is a rejection of the provided proposal, further comprising providing an alternative financing proposal.

15 13. The method of claim 6, if the referral becomes engaged, further comprising establishing an account for the referral within a marketplace in the transaction management and financial services system.

14. The method of claim 13, further comprising receiving commercial transaction information from the referral.

20 15. The method of claim 14, wherein the step of receiving commercial transaction information comprises receiving electronic commercial transaction information, receiving paper-based commercial transaction information, converting the paper-based commercial transaction information into an electronic format and storing the received commercial transaction information in the central server  
25 computer.

16. The method of claim 15, wherein the marketplace comprises buyers and sellers.

17. The method of claim 16, wherein the marketplace comprises a centralized repository of commercial transaction information for buyers and sellers.

18. The method of claim 16, further comprising providing operations which can be performed within the marketplace.

5 19. The method of claim 18, wherein the operations which can be performed within the marketplace comprise any one of trade credit underwriting, commercial transaction management, financing, and modification and customization of a screen display at a remote device in communication with the server.

10 20. The method of claim 19, wherein trade credit underwriting comprises any one of receiving a request to approve a buyer for trade credit; responding to the request by analyzing the buyer for trade credit eligibility; obtaining additional information on the buyer, where there is insufficient information to analyze the buyer for trade credit eligibility; and making a recommendation to the requesting party as to the eligibility of the buyer for trade credit.

15 21. The method of claim 20, wherein the additional information may include information obtained from any one of the buyer seeking trade credit approval and external information sources.

20 22. The method of claim 21, wherein the information received from the buyer comprises any one of length of time in business, number of employees, industry, sales size, credit references, banking references, type of business, financial information, and other buyer information.

25 23. The method of claim 21, wherein the external information sources comprise any one of banks; suppliers; credit agencies; identification verification companies; local, state, federal, and international governments; and information gathering firms.

24. The method of claim 23, wherein the external information from banks comprises any one of information on credit facilities to the buyer seeking trade credit approval, average size of bank balances, performance histories including

25. The method of claim 23, wherein the external information from suppliers comprises any one of information on the length of their relationship with the buyer seeking trade credit approval, average credit extended to the buyer seeking trade credit approval, payment performance history of the buyer seeking trade credit approval, products sold to the buyer seeking trade credit approval, degree of satisfaction with the performance of the buyer seeking trade credit approval, and other information concerning their relationship with the buyer seeking trade credit approval.

26. The method of claim 23, wherein the external information from credit agencies comprises any one of length of time in business, number of employees, industry, sales size, bank of record, secured party information, payment performance history, type of business, financial information, organizational history, owner biographical information, and other buyer information.

28. The method of claim 23, wherein the external information from local, state, federal, and international governments comprises any one of corporate documents including articles of incorporation, corporate filing documents, information containing identification of the officers of the company, information contained within SEC filing documents, and other information available through various governments.

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transaction information, to electronically reconcile modifications of commercial transaction information with an accounting system located at a remote device, to conclude and electronically reconcile commercial transaction information with an accounting system located at a remote device; receipt and application of electronic and paper-based payment; storing payment information, including images, within the central server computer; and facilitating the management and collection of payments; allowing buyers and seller to electronically reconcile payment information with an accounting system located at a remote device.

30. The method of claim 29, wherein the ancillary commercial transaction information comprises any one of electronic shipping information, bank account information, and other information necessary to manage, maintain, and conclude commercial transactions.

31. The method of claim 29, wherein the step of aggregating commercial transaction information comprises linking commercial transaction information to the associated commercial transaction and accounts of a buyer and seller that are parties to the commercial transaction.

32. The method of claim 29, wherein commercial transaction management further comprises providing dispute resolution, comprising the steps of:

receiving dispute information related to an invoice, the dispute information including information identifying the disputed invoice, the invoice having an invoice issuer and an invoice recipient;

communicating the dispute information to the invoice issuer; and providing for communication between the invoice issuer and the invoice recipient to facilitate resolution of the dispute.

33. The method of claim 29, further comprising providing access to commercial transaction documentation to both the buyer and the seller, commercial

transaction documentation including commercial transaction information and ancillary commercial transaction information.

34. The method of claim 19, wherein financing comprises any one of receiving information regarding a financing seeking party; where there is sufficient  
5 information to make a proposal, making a proposal to provide financing to the financing seeking party; where there is not sufficient information to make a proposal, obtaining additional information; and if the proposal is declined, providing an alternative financing proposal.

35. The method of claim 34, wherein sufficient information comprises  
10 any one of financial information of the financing-seeking party, articles of incorporation of the financing-seeking party, customer list of the financing-seeking party, vendor list of the financing-seeking party, organizational history of the financing-seeking party, detailed lists of assets and liabilities of the financing-seeking party, number of employees of the financing-seeking party, industry of the  
15 financing-seeking party, type of business of the financing-seeking party, key employee biographies and responsibilities of the financing-seeking party, and other information on the financing-seeking party.

36. The method of claim 34, further comprising, if the proposal is  
20 accepted, establishing an account for the financing seeking party and capturing account activity information.

37. The method of claim 36, wherein account activity information can be information regarding any one of advance requests, over advance requests, credit availability, and communications with financing seeking party.

38. The method of claim 19, wherein the operations performed within the  
25 marketplace result in the gathering of information which is captured to form a profile for a specific user, the specific user including any one of a specific company user and a specific individual user.

39. The method of claim 38, wherein the profile comprises information of what data is accessed by the specific user and how the display of data on the screen display is modified by the specific user.

40. The method of claim 38, wherein the profile further comprises  
5 information gathered during any one of the operations of trade credit underwriting, commercial transaction management, and financing.

41. The method of claim 38, further comprising customizing a look and feel of the screen display based on the profile established for the specific user.

42. The method of claim 41, wherein the look and feel furthers brand  
10 exposure of the referring party.

43. The method of claim 41, wherein the look and feel comports with the brand image of the referring party, whereby an impression is created that the operations of the transaction management and financial services system are being performed by the referring party.

44. The method of claim 41, wherein the look and feel comports with the  
15 brand image of the referring party, whereby an impression is created that the operations of the transaction management and financial services system are being performed in affiliation with the referring party.

45. The method of claim 38, further comprising customizing the content  
20 of the screen display based on the profile established for the specific user.

46. The method of claim 38, further comprising customizing advertisements provided on the screen display based on the profile established for the specific user.

47. The method of claim 46, wherein the advertisements are specific to  
25 the referring party.



48. The method of claim 38, further comprising customizing the presentation of referring party products and services to the screen display based on the profile established for the specific user.

49. The method of claim 38, wherein the profile comprises attributes  
5 determined by an external party.

50. The method of claim 49, wherein the external party comprises any one of an advertiser, referring party, financial institution, and any corporate entity.

51. The method of claim 49, further comprising providing a means for any one of accessing, analyzing, interpreting, modifying, and retrieving attributes of  
10 the profile.

52. The method of claim 38, wherein the profile comprises system-defined attributes.

53. The method of claim 1, further comprising providing a screen display indicating an affiliation with the referring party.

54. The method of claim 53, wherein the screen display is wholly  
15 representative of the referring party.

55. The method of claim 1, further comprising providing a screen display with no indication of the referring party.

56. A system configured to provide transaction management and financial  
20 services and to communicate between a server and at least one remote device via a network, the system comprising:

means for receiving a referral from a referring party, the referral including information regarding any one of a financing-seeking party that has been declined by the referring party, a transaction management-seeking party, a trade credit-seeking  
25 party, and a credit guarantee-seeking party; and

means for storing the information regarding the referral in a storage device.

57. A computer program product comprising computer readable program code for handling declinations, the program code in the computer program product comprising:

5 first computer readable program code for receiving a referral from a referring party, the referral including information regarding any one of a financing-seeking party that has been declined by the referring party, a transaction management-seeking party, a trade credit-seeking party, and a credit guarantee-seeking party; and

10 second computer readable program code for storing the information regarding the referral in a storage device.

58. The method of claim 1, further comprising:

15 evaluating the referral to determine whether the referral meets system-determined underwriting criteria, the system-determined underwriting criteria being variables used to determine whether the services and products of the system meets the needs of the referral;

if the referral does not meet system-determined underwriting criteria, seeking an alternative provider for the referral.

20 59. The method of claim 58, wherein the step of seeking an alternative provider for the referral comprises communicating application information on the referral to potential alternative providers; and receiving bids from potential alternative providers and communicating bids to the referral.

25 60. The method of claim 58, wherein the step of seeking an alternative provider for the referral comprises receiving bids from potential alternative providers; selecting a bid from the received bids; and communicating the selected bid to the referral as a system-branded bid.

61. The method of claim 58, wherein the step of seeking an alternative provider for the referral comprises matching application information for the referral

to underwriting guidelines of a plurality of alternative financing providers and determining whether one or more matches exist.

62. The method of claim 61, further comprising notifying the alternative provider and the referral of the match.

5           63. The method of claim 62, wherein the match is provided on a private label basis, reflecting the brand of the transaction management and financial services system and the referring party.

10           64. The method of claim 62, wherein the match is provided on a co-branded label basis, reflecting the brand of the transaction management and financial services system and the alternative provider.

65. The method of claim 62, wherein the match reflects only the brand of the alternative provider.

66. The method of claim 62, wherein the match reflects only the brand of the referring party.

15           67. The method of claim 1, further comprising:

compiling a list of names and information associated with providers of commercial transaction management services; and

communicating the list associated with providers of commercial transaction management services for presentation at a remote device.

## ABSTRACT OF THE DISCLOSURE

5

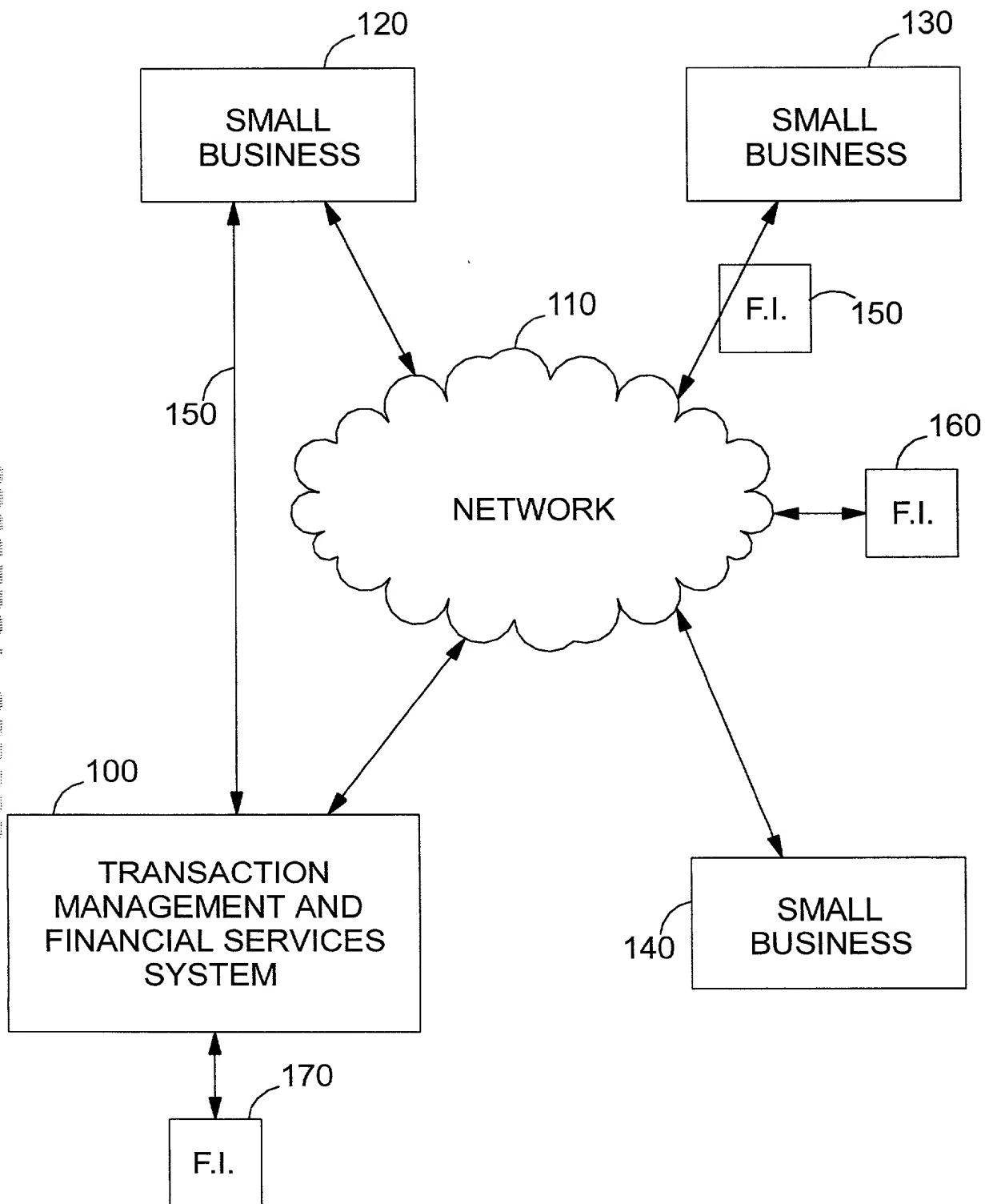


FIG. 1



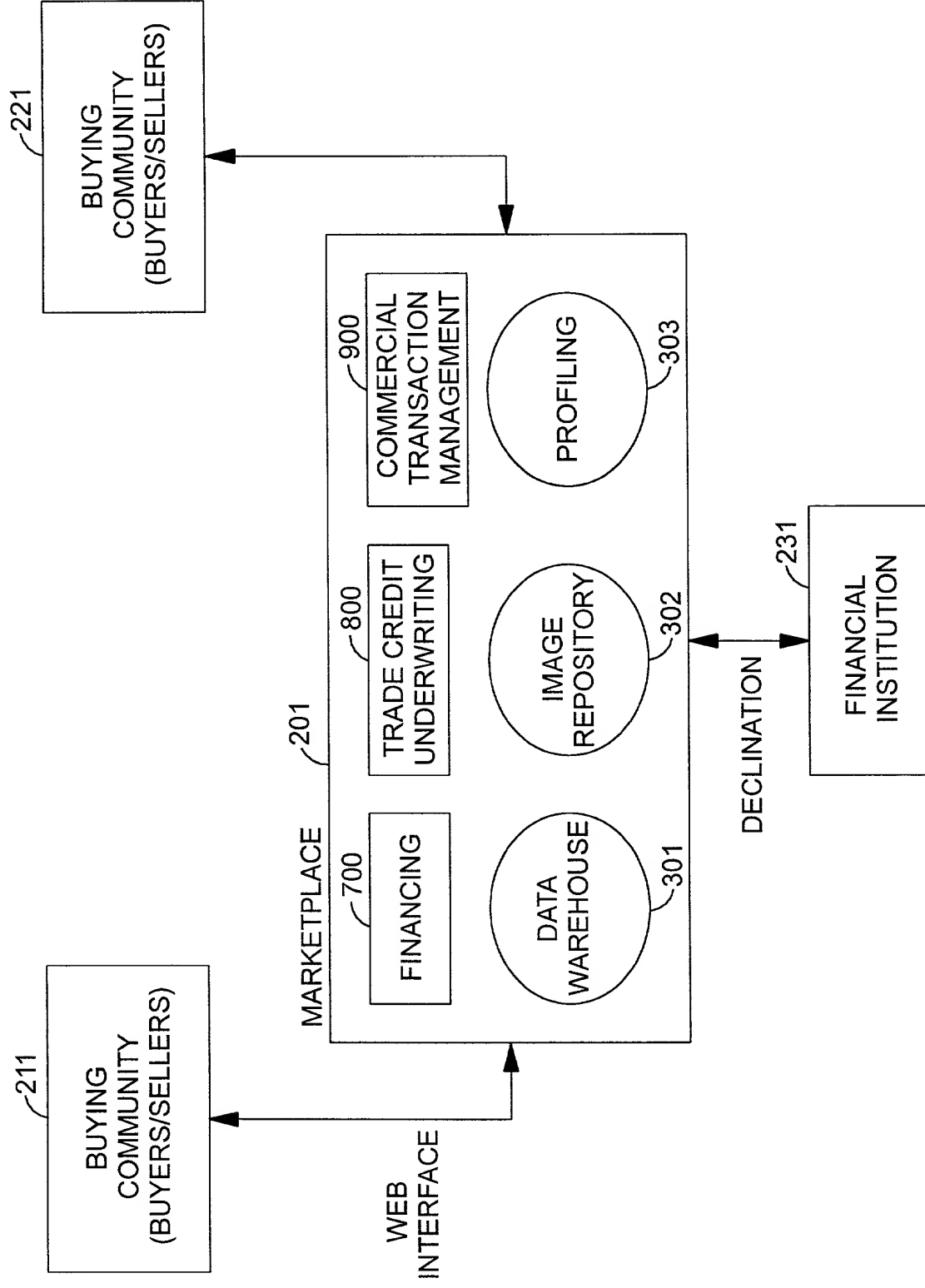


FIG. 3





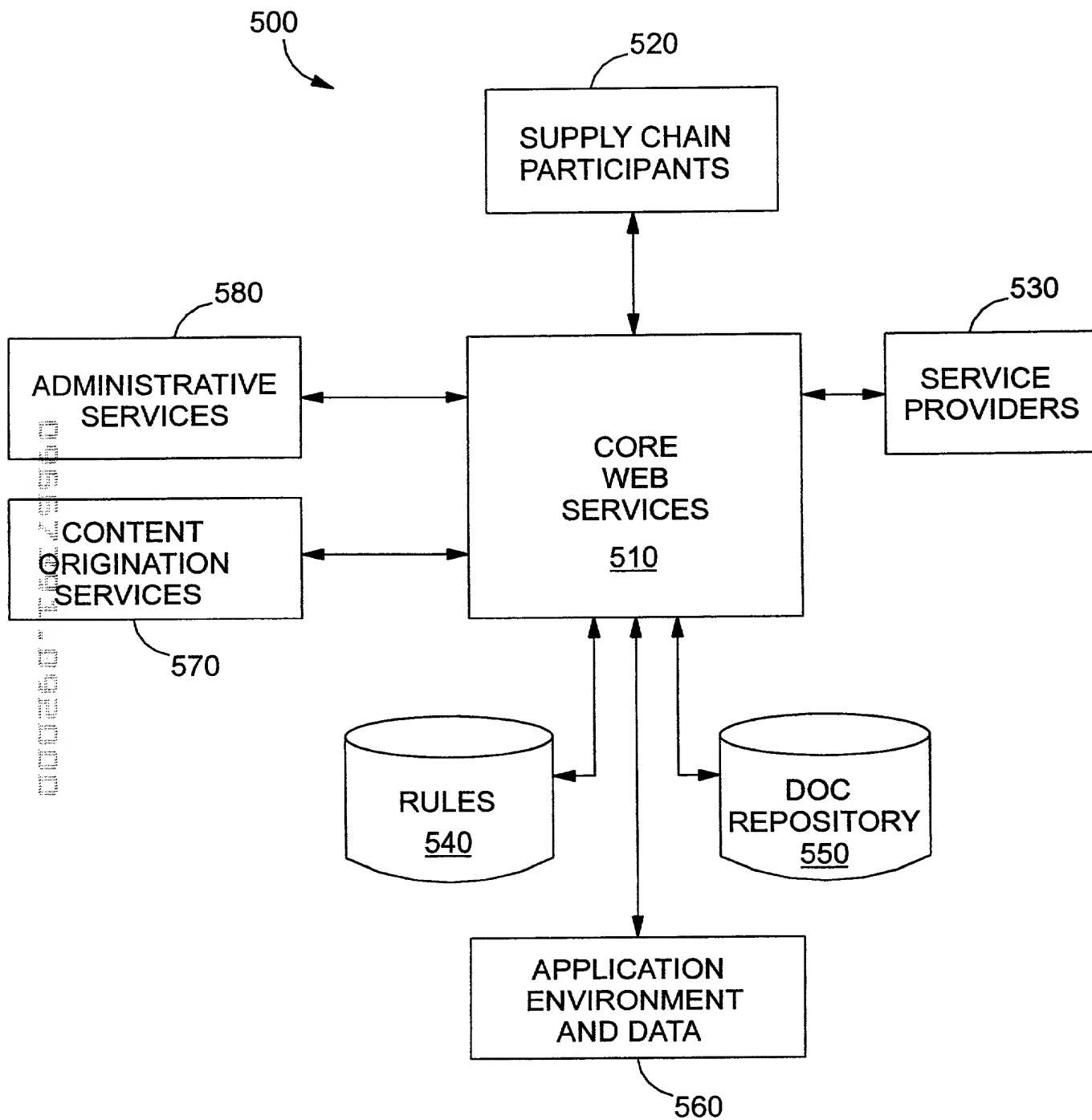


FIG. 5



701

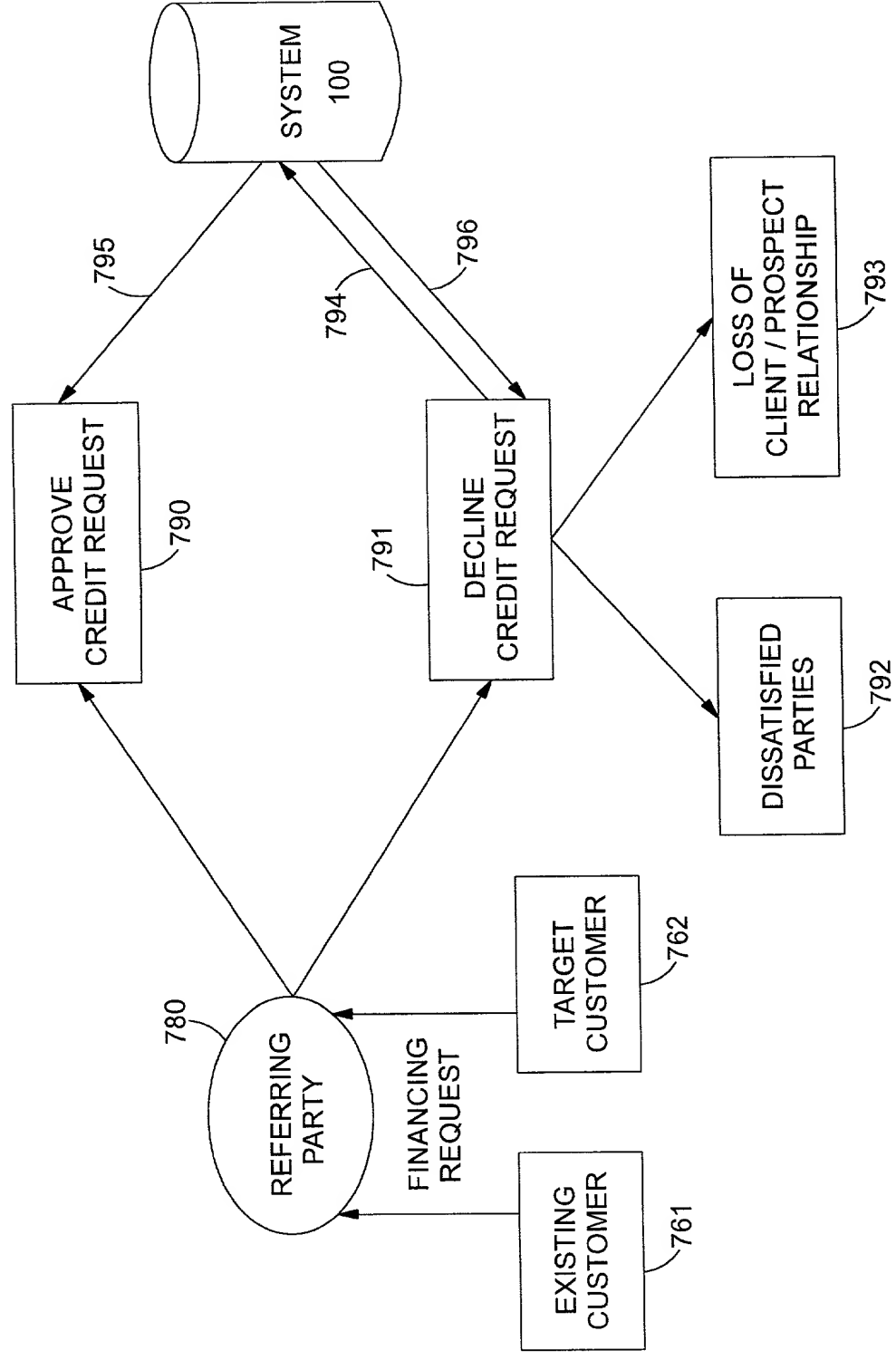


FIG. 7A

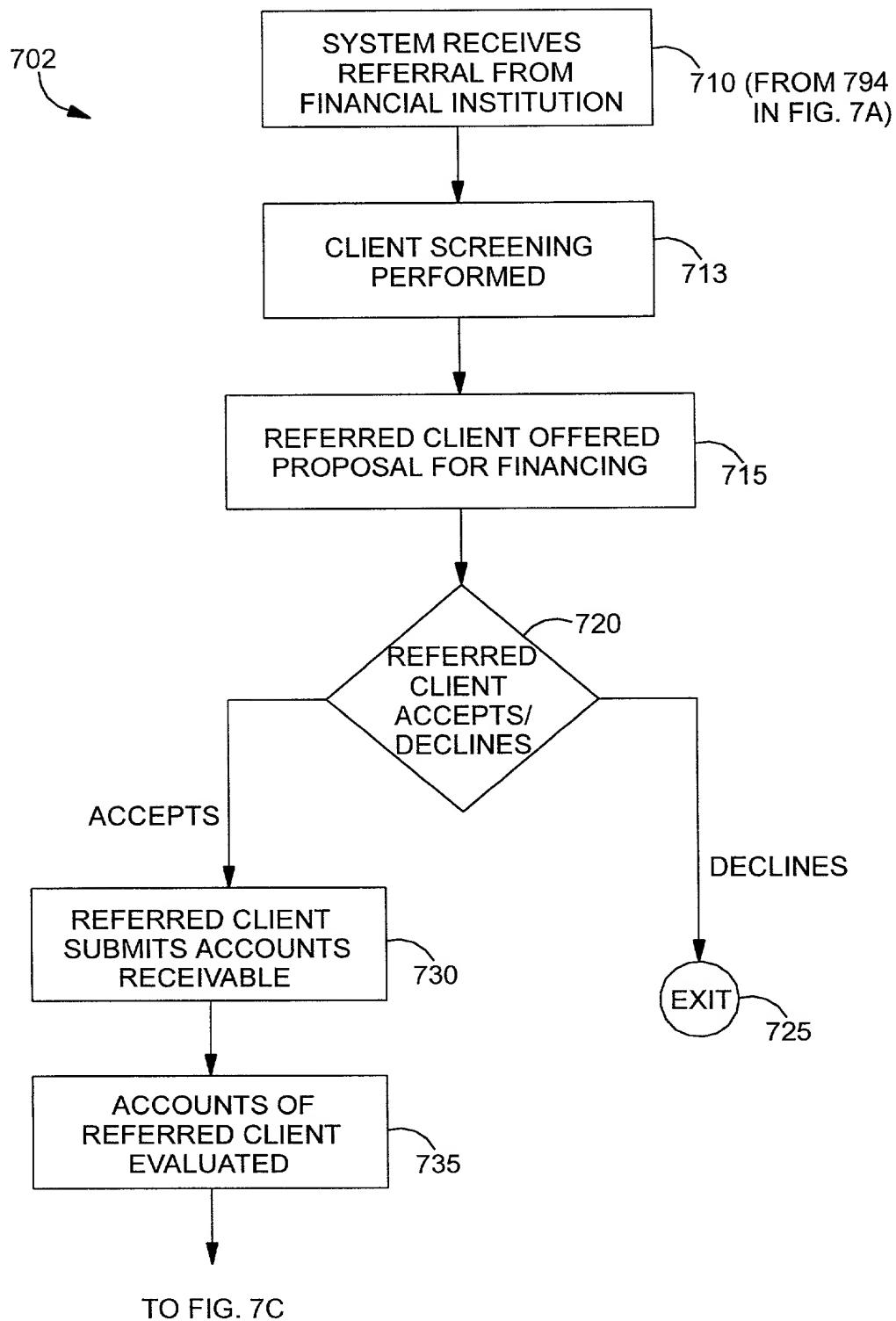


FIG. 7B

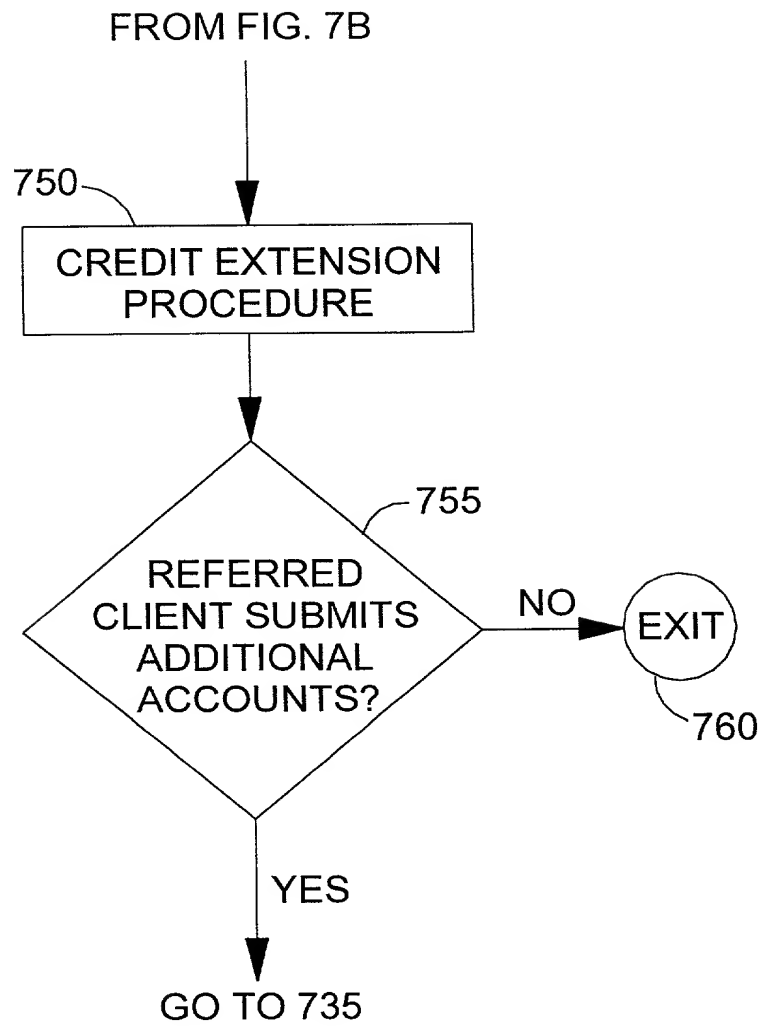


FIG. 7C

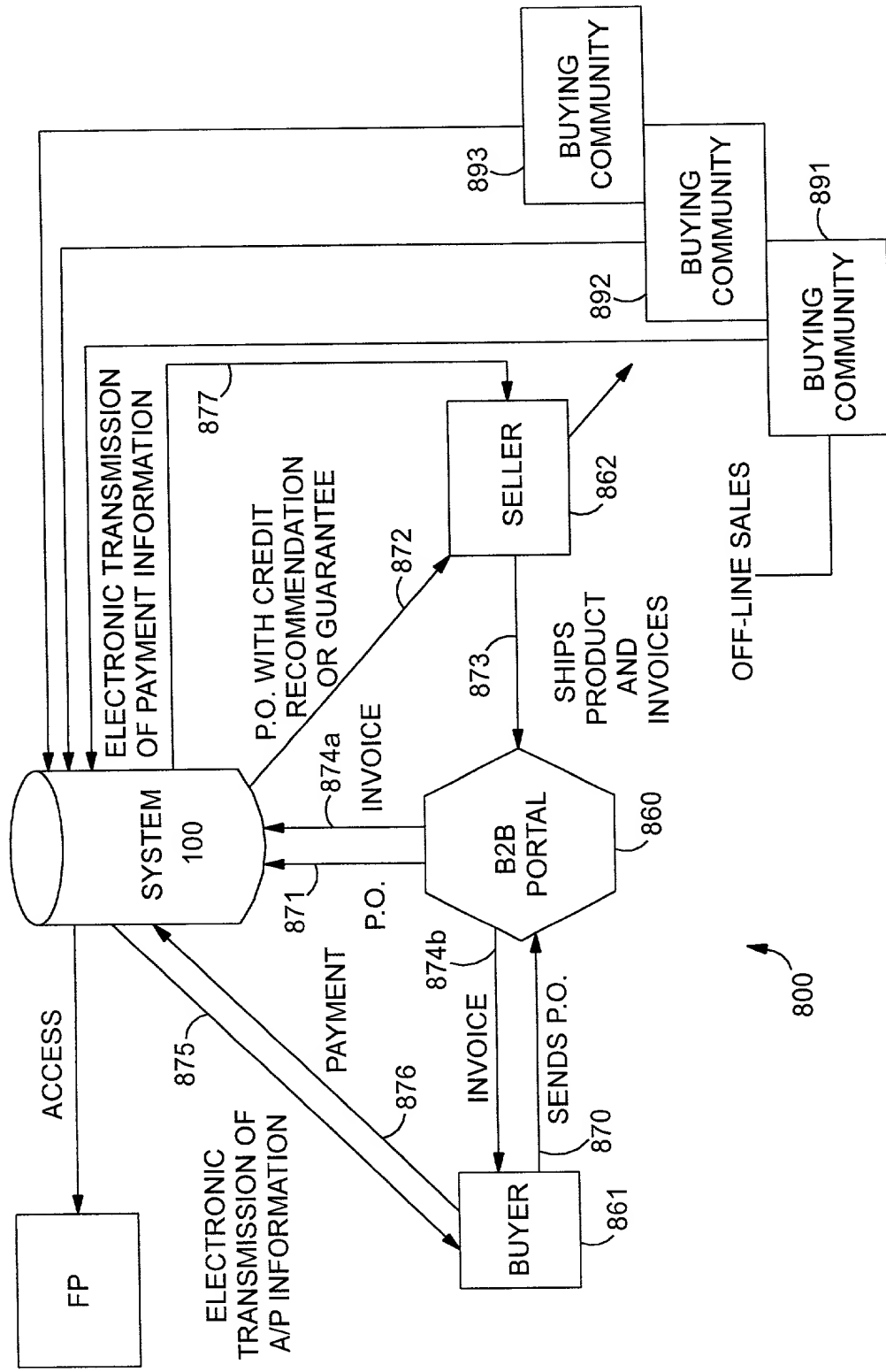


FIG. 8A

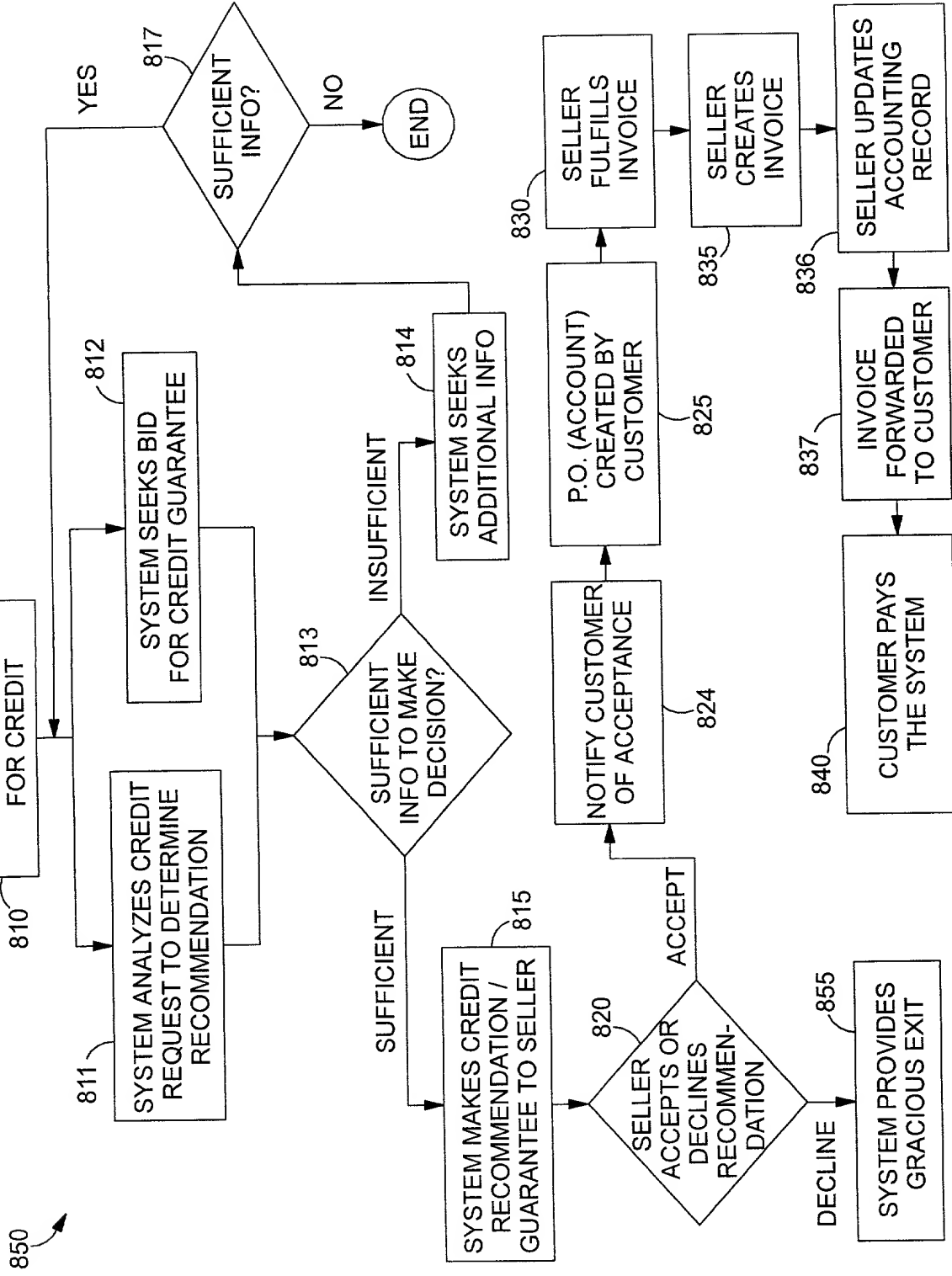


FIG. 8B

870

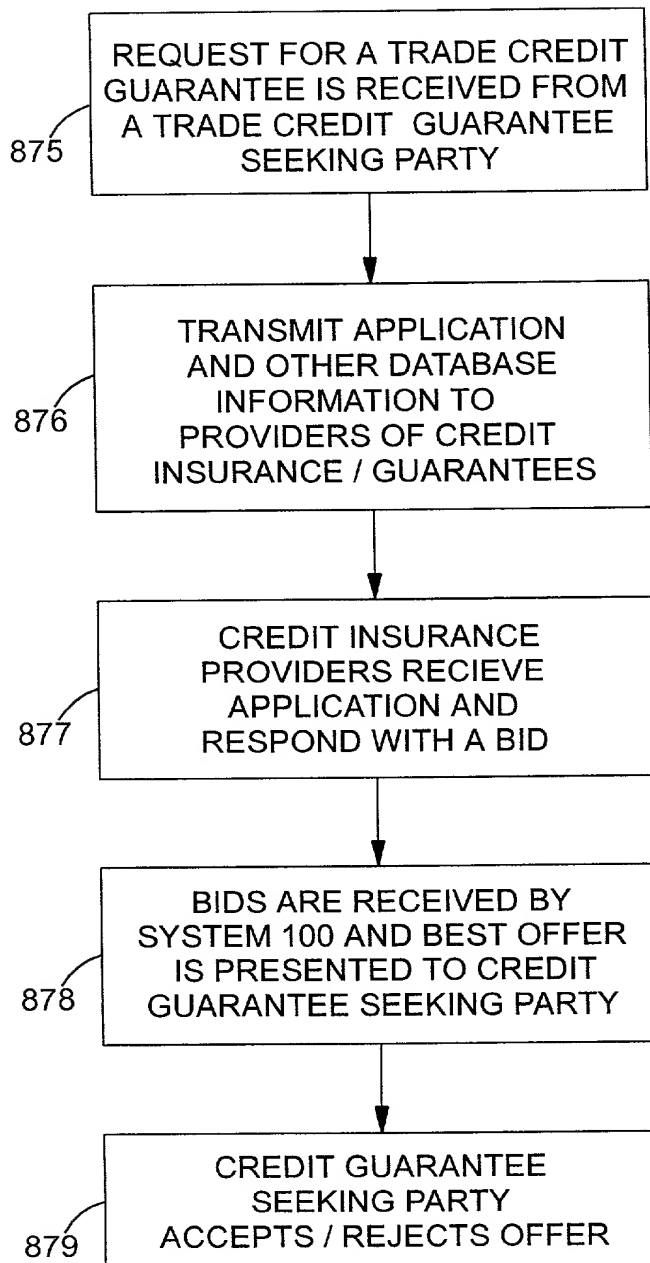


FIG. 8C



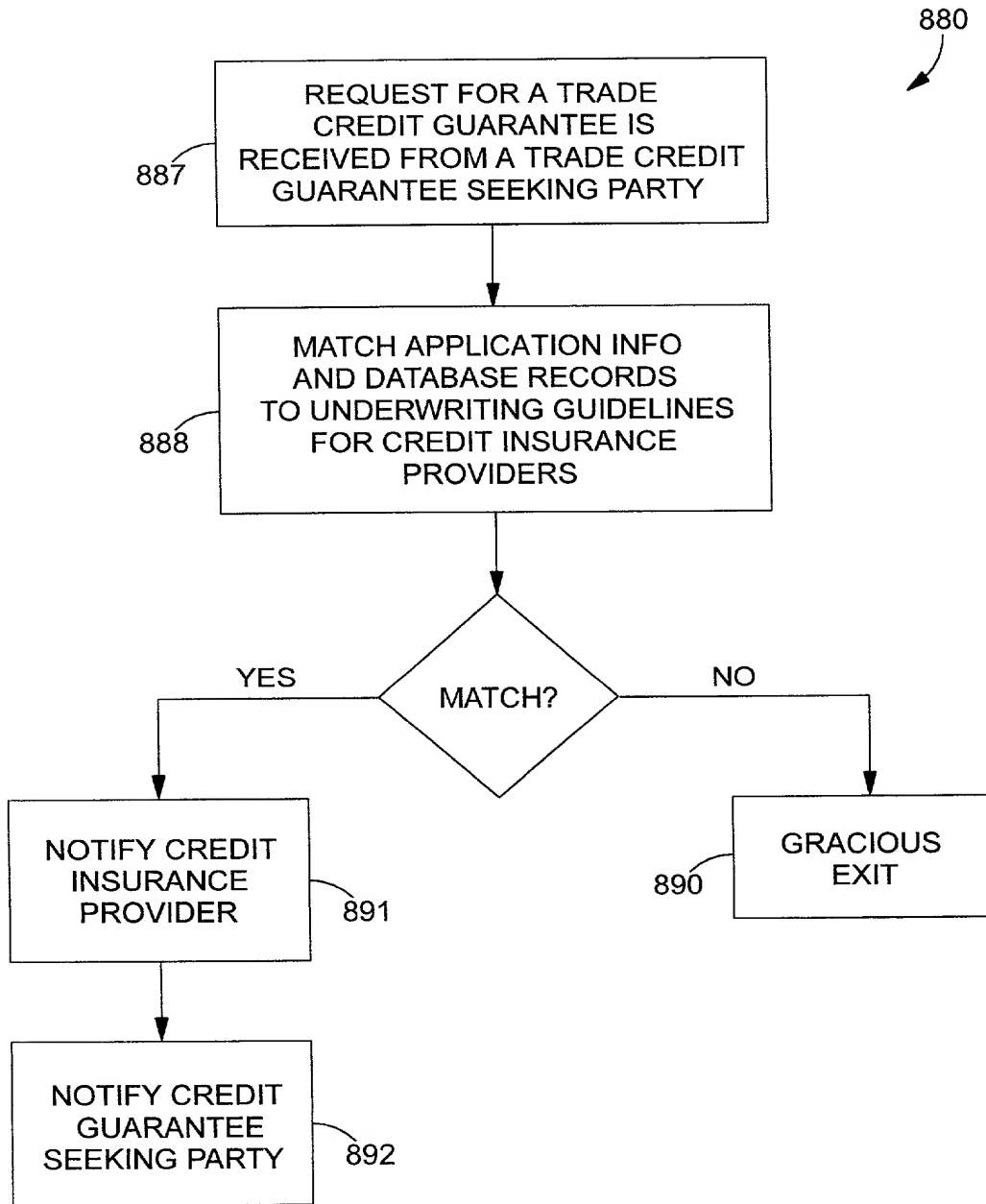


FIG. 8D

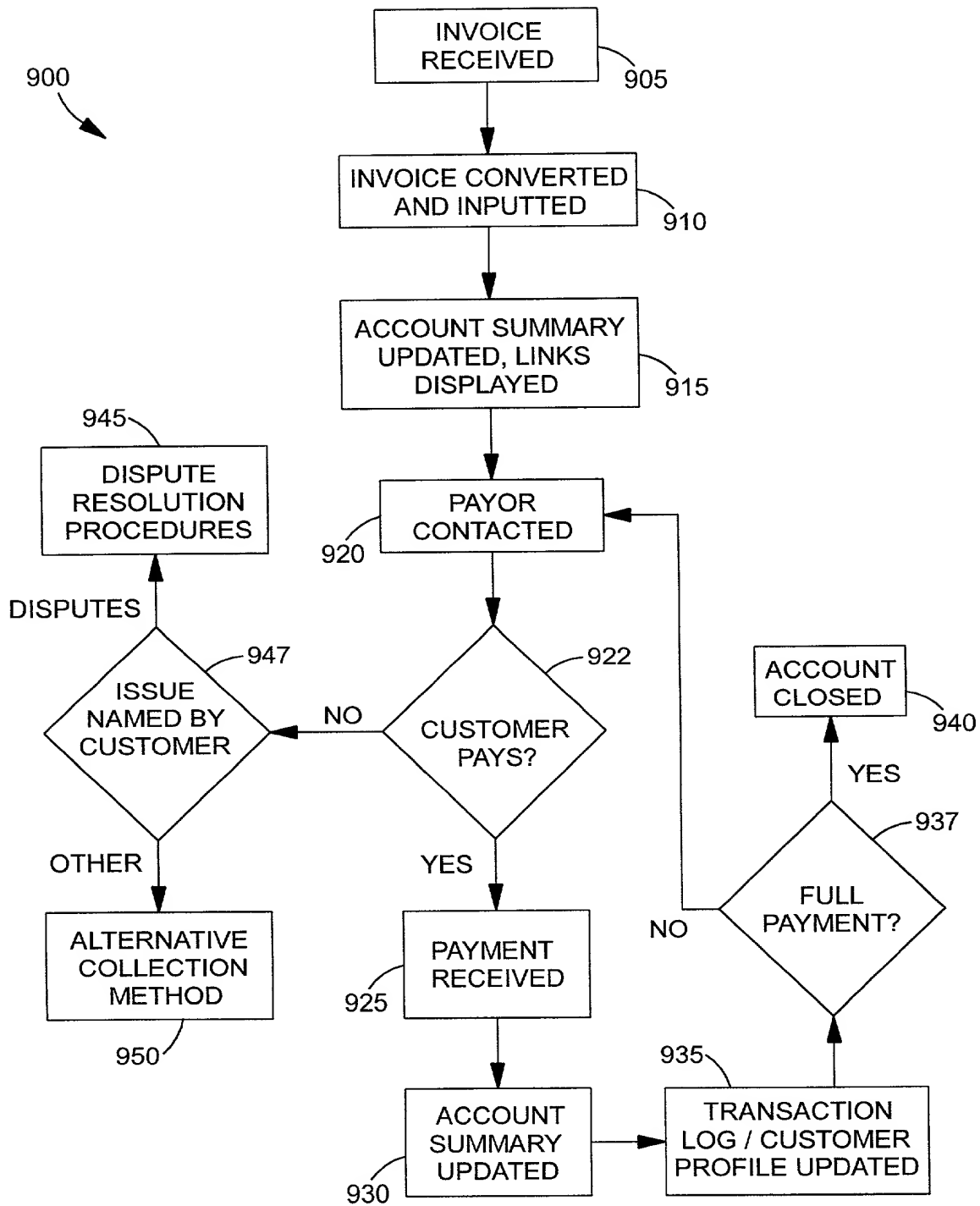


FIG. 9

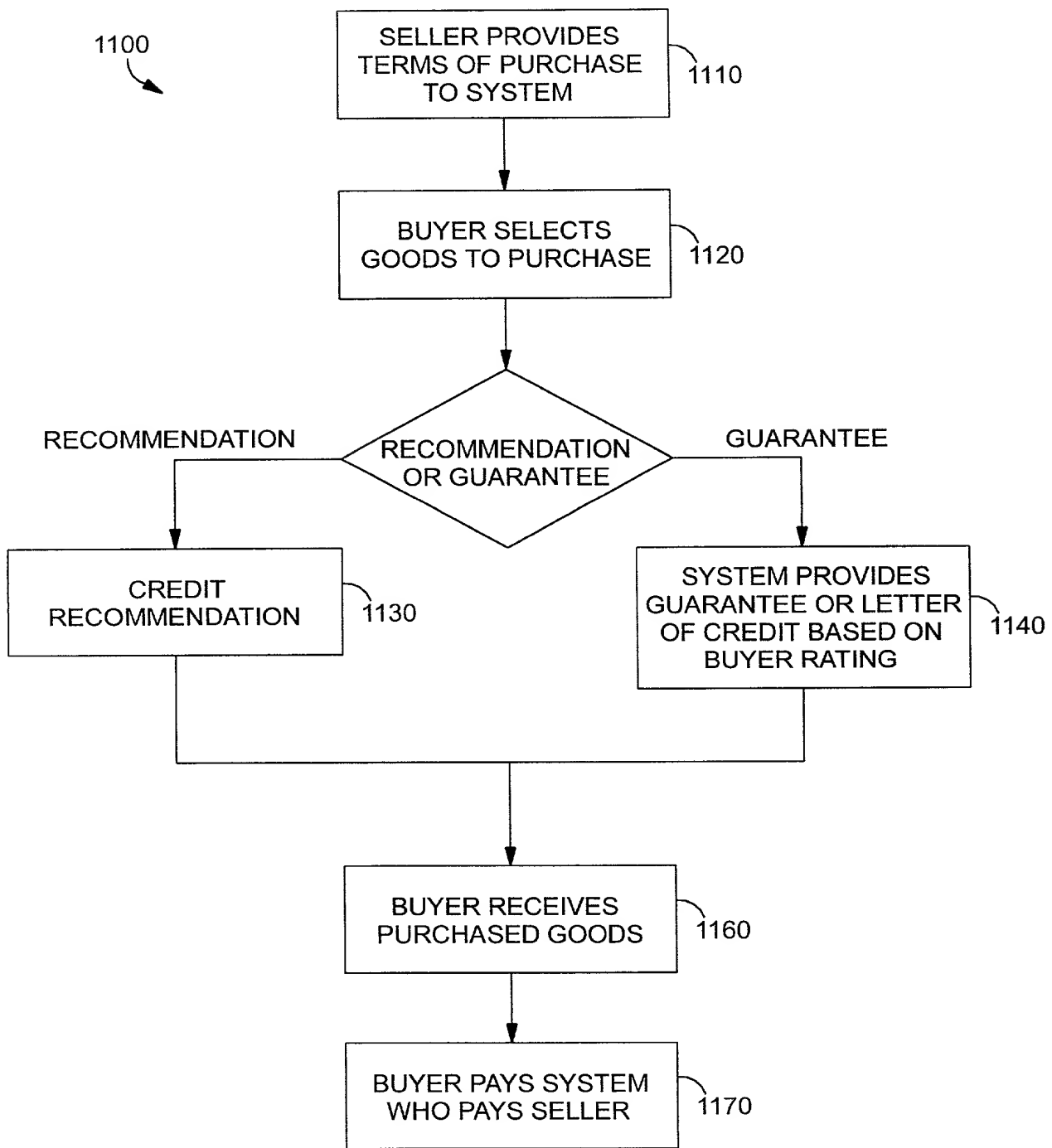


FIG. 11

1200

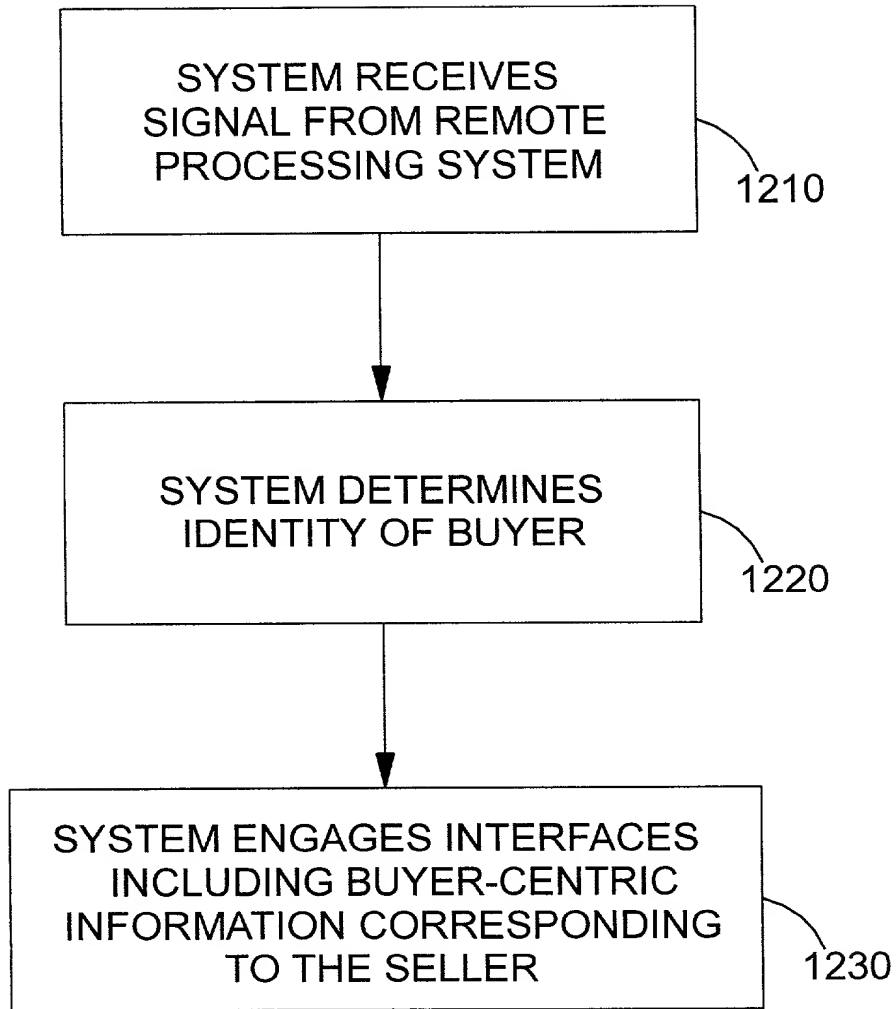


FIG. 12

1300

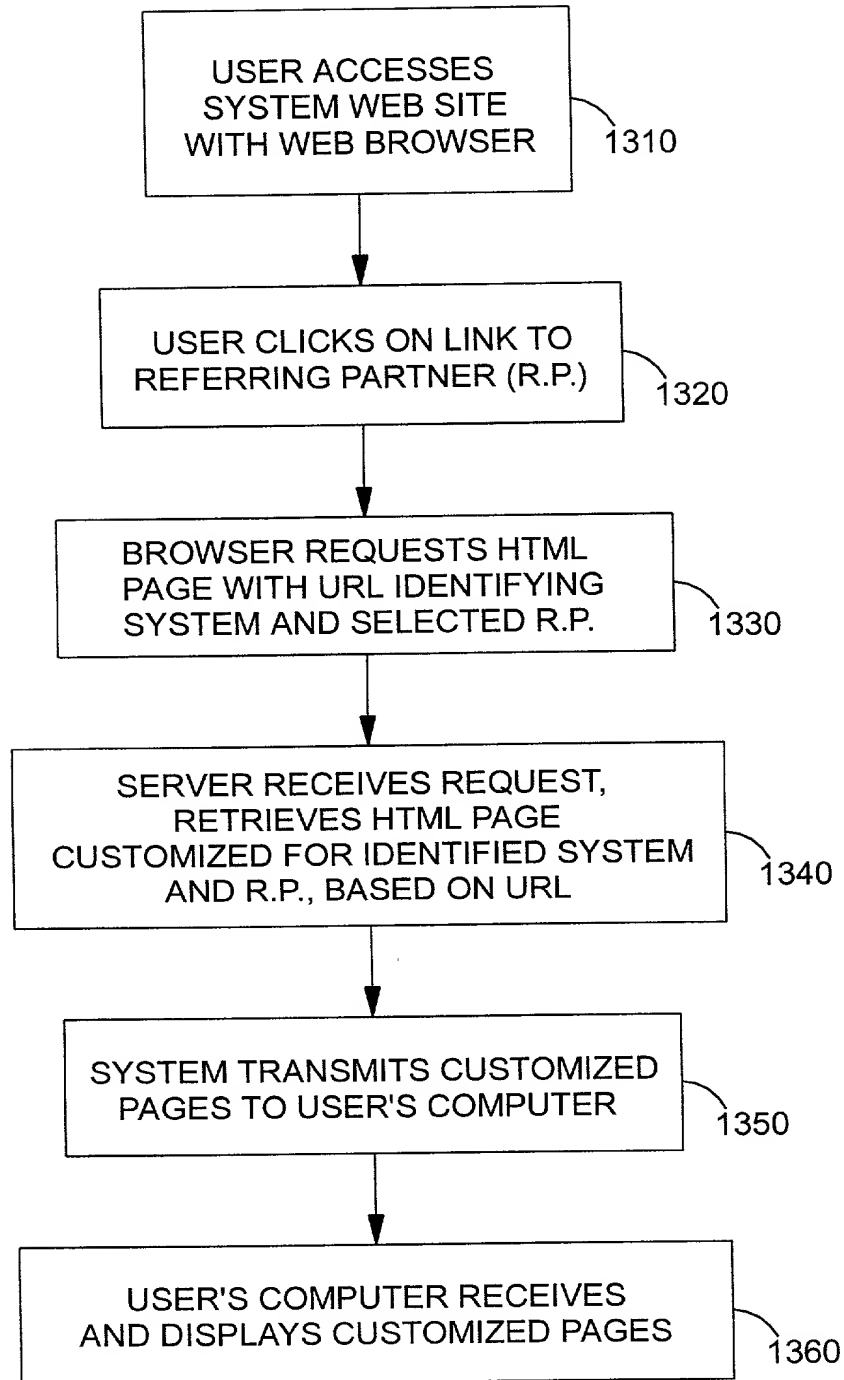


FIG. 13A

1370

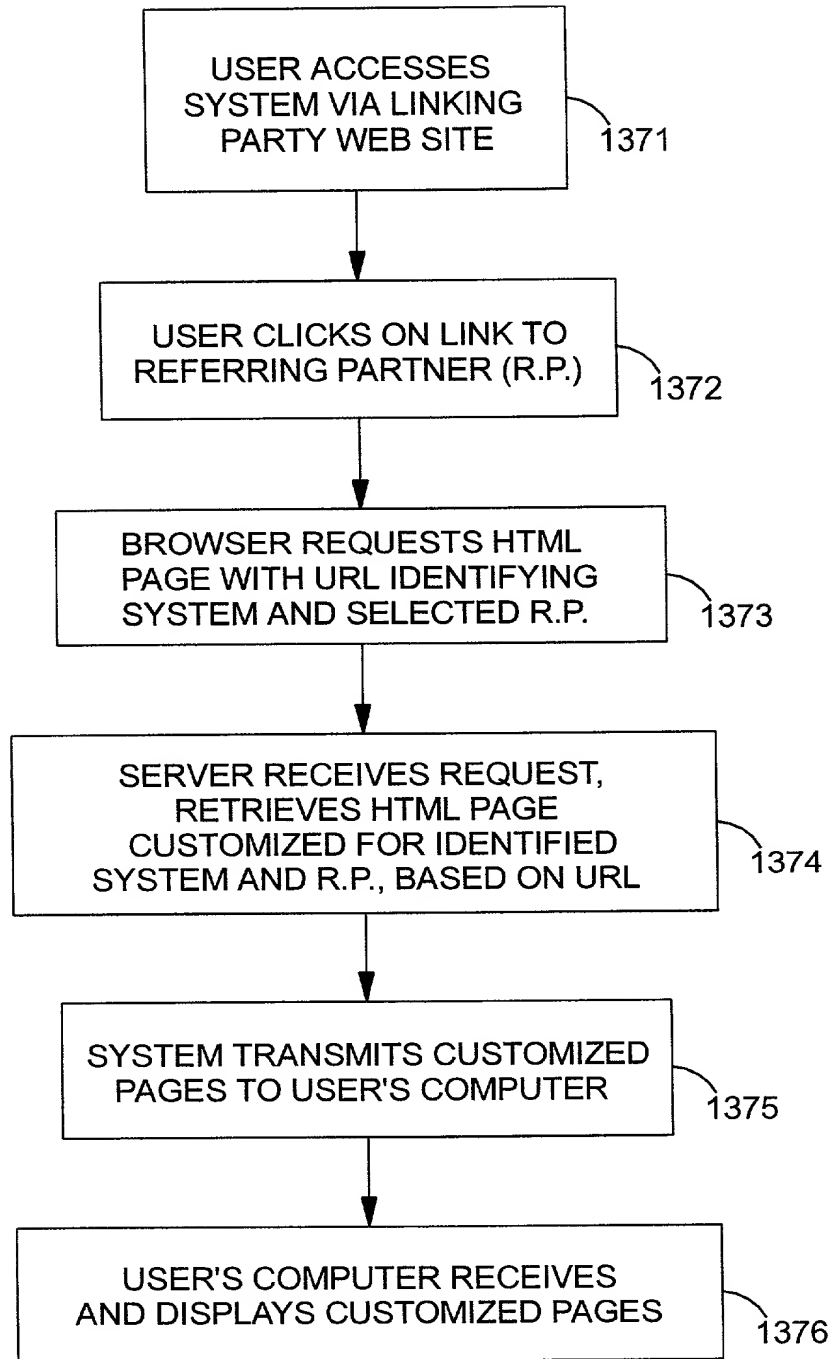


FIG. 13B

1380

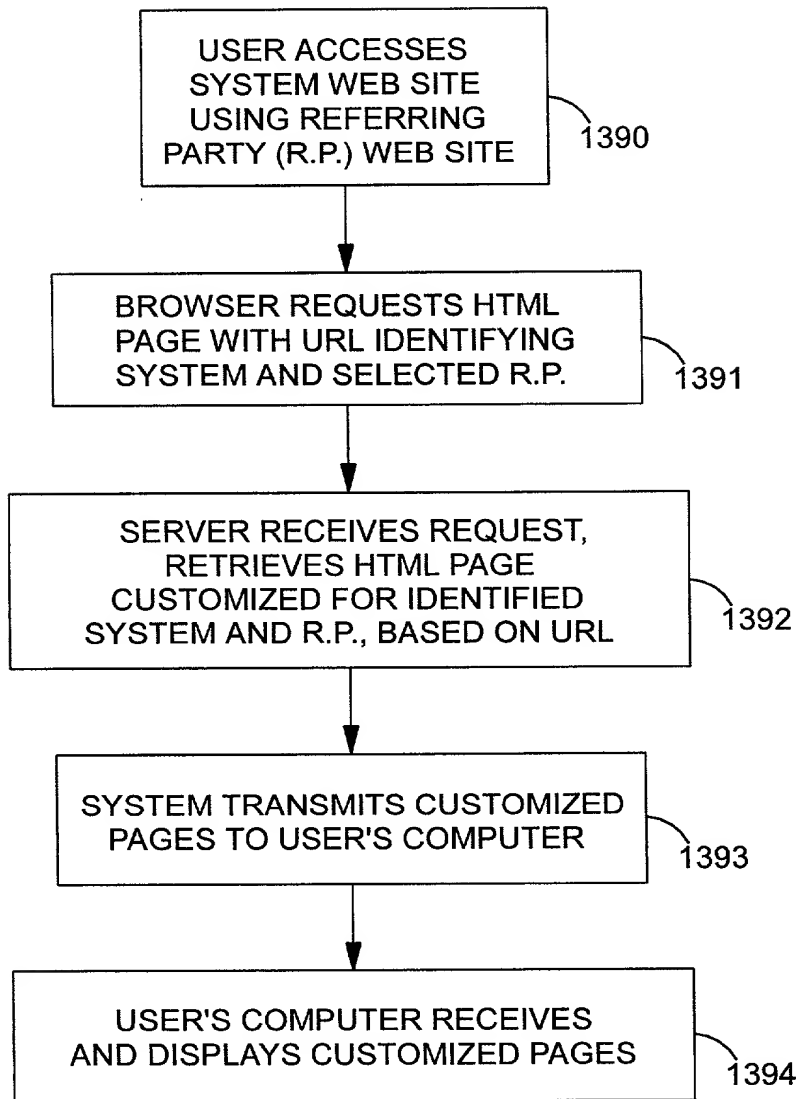


FIG. 13C

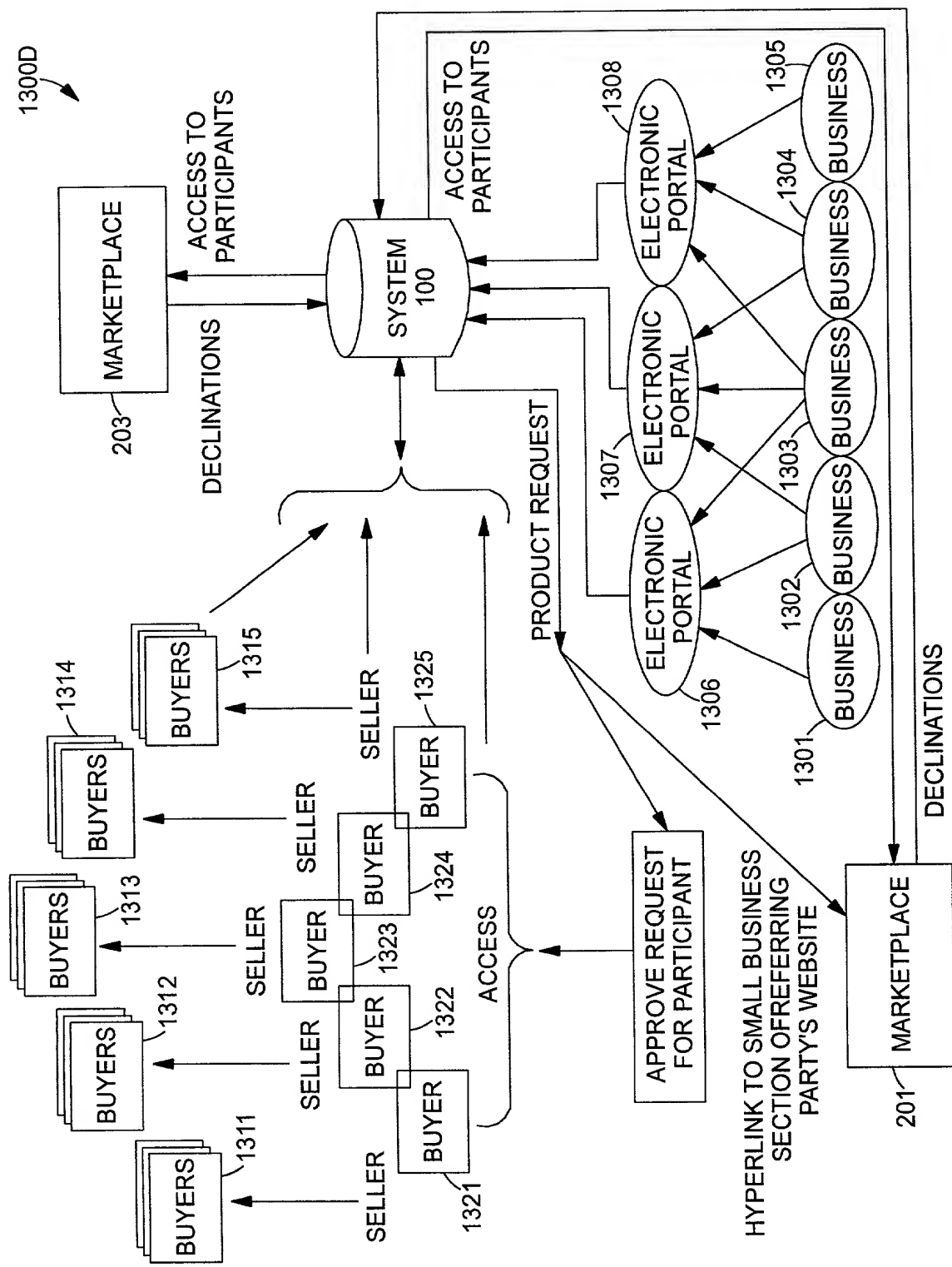


FIG. 13D



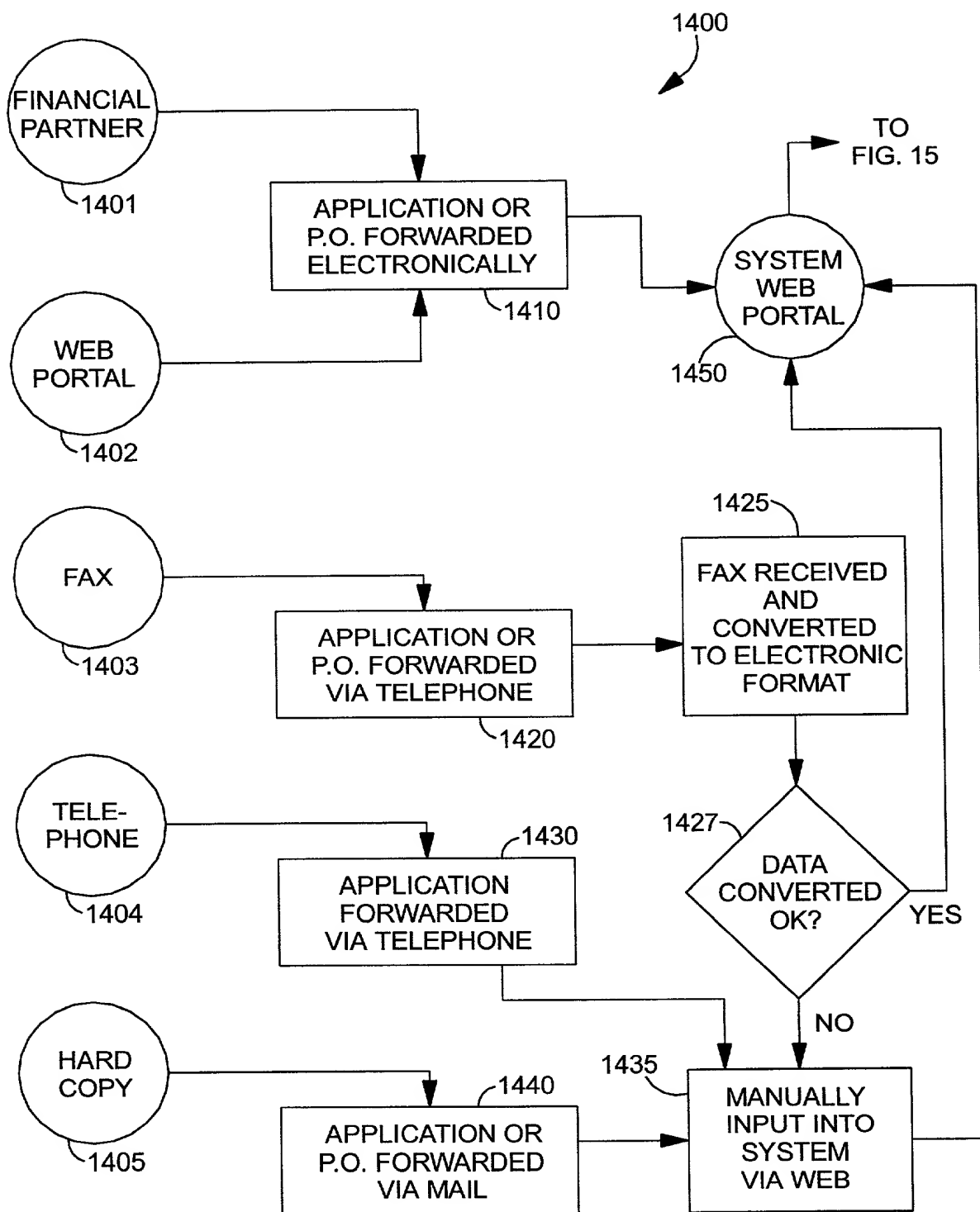


FIG. 14

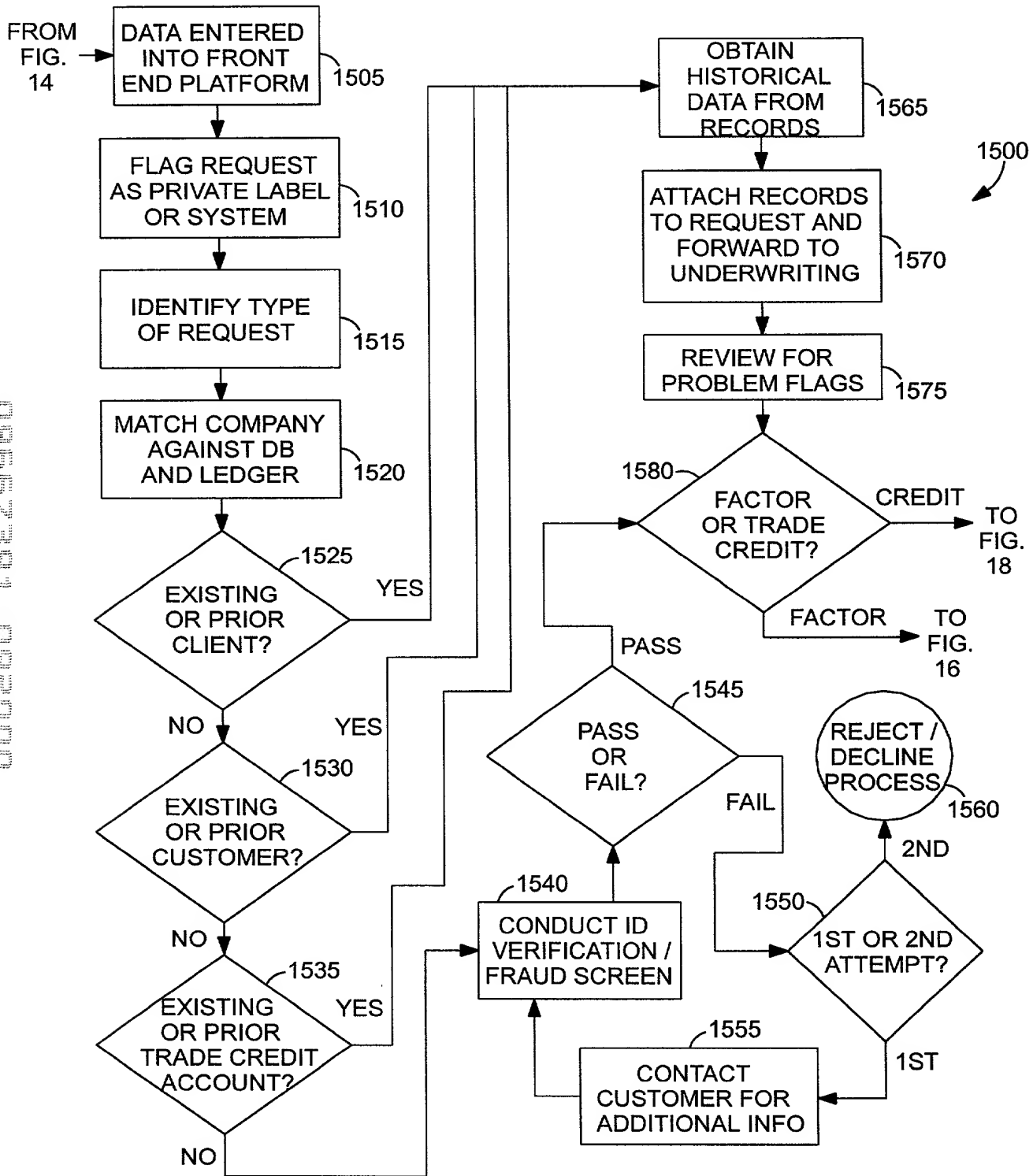


FIG. 15

000260 16229360

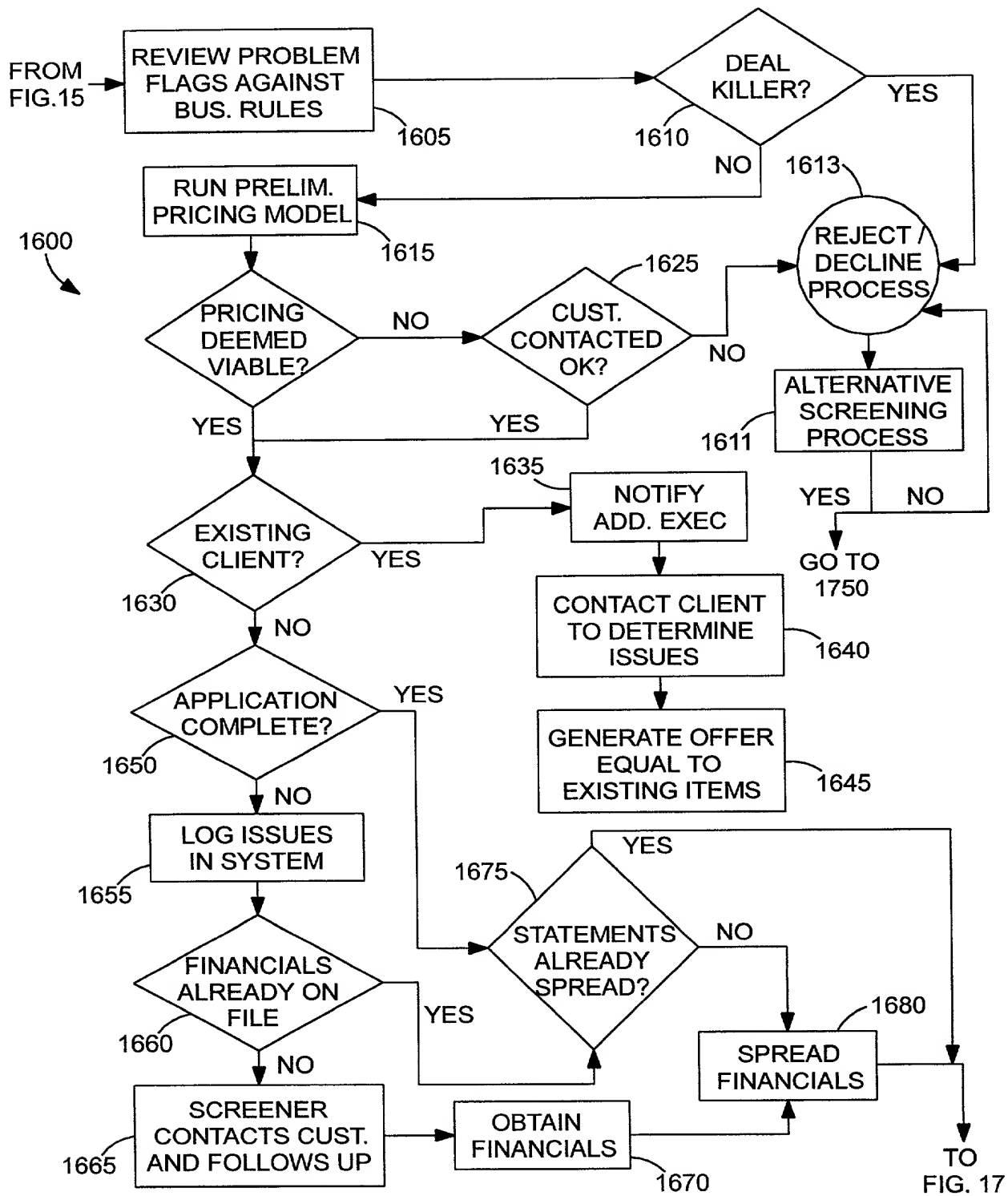


FIG. 16A

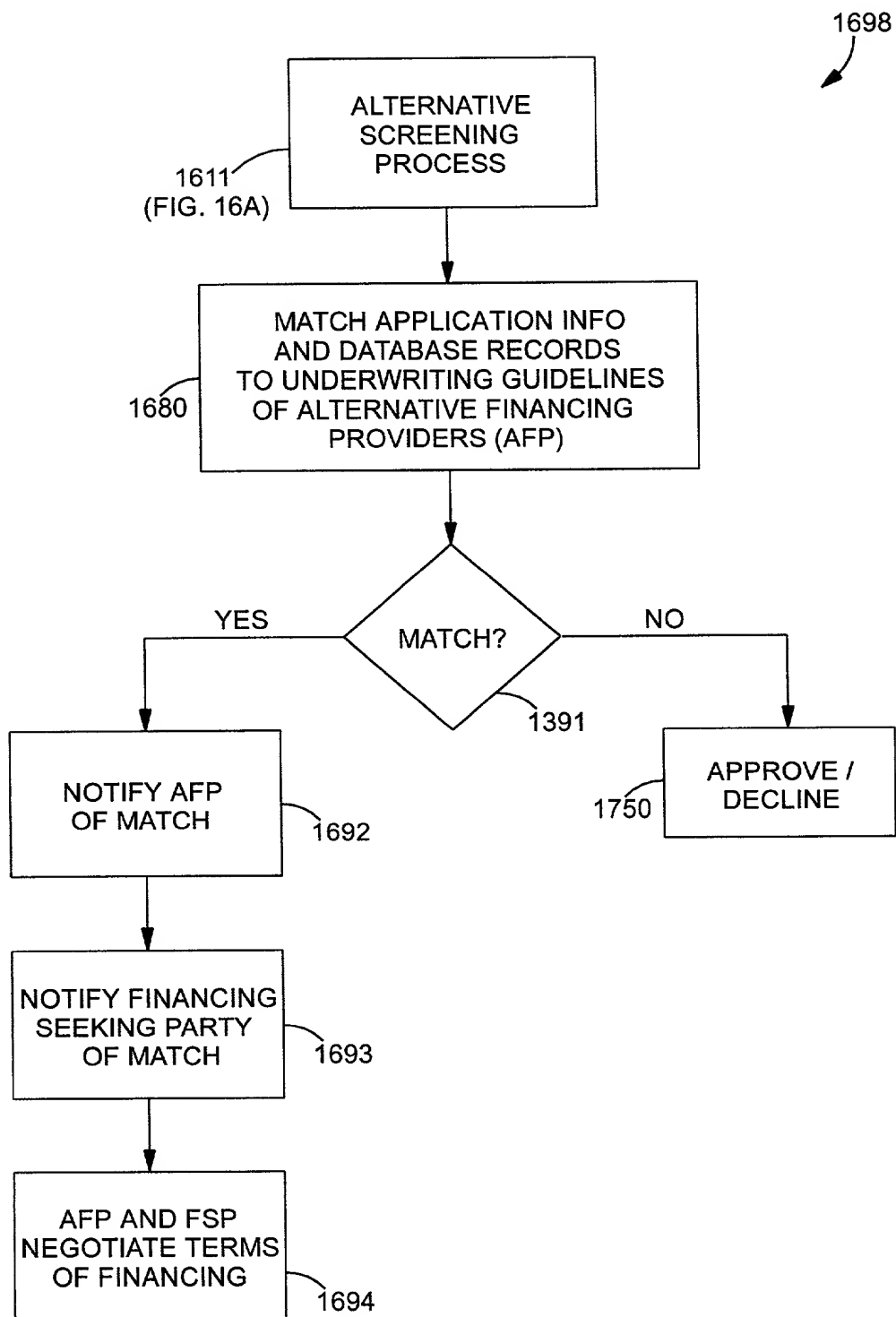


FIG. 16B

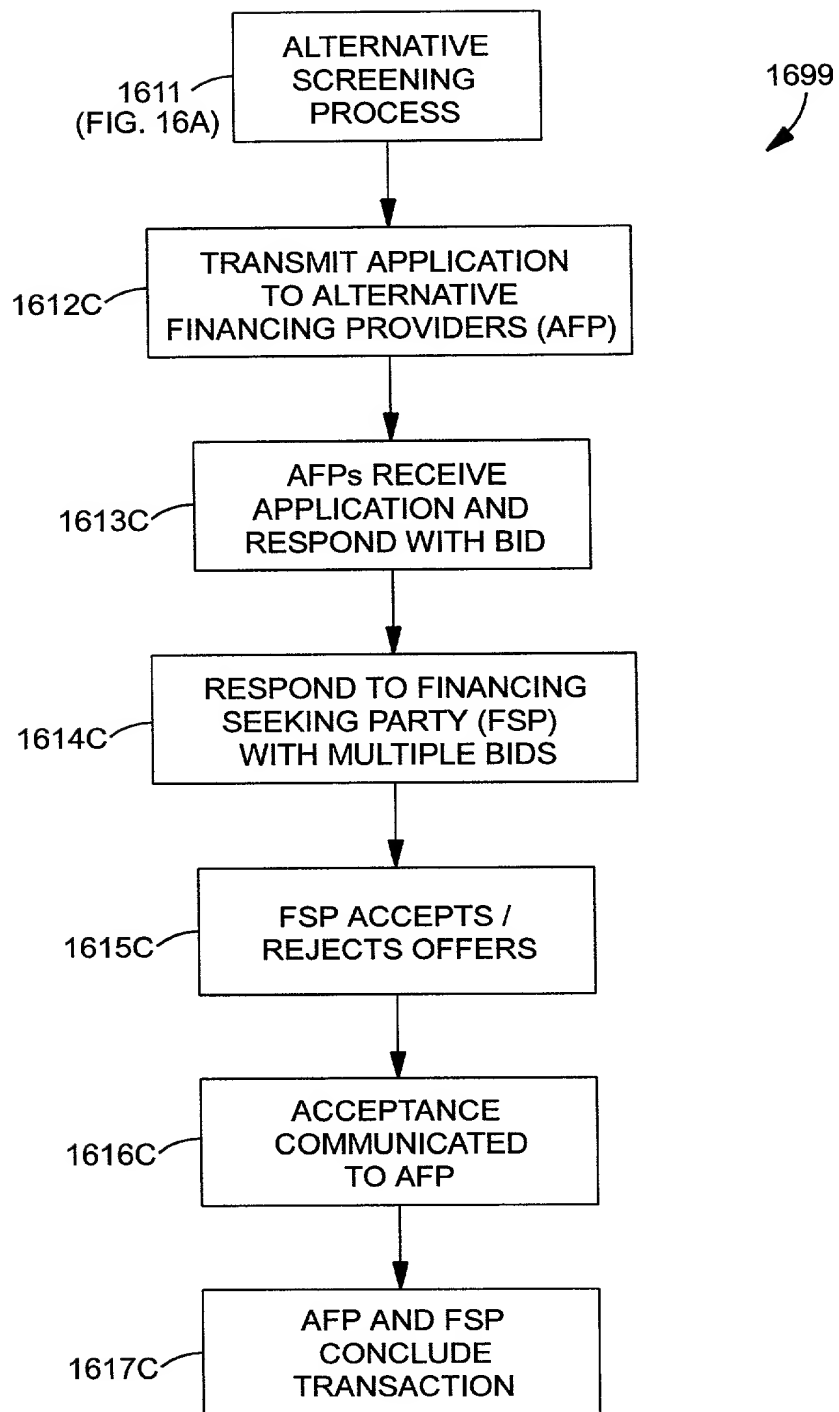


FIG. 16C

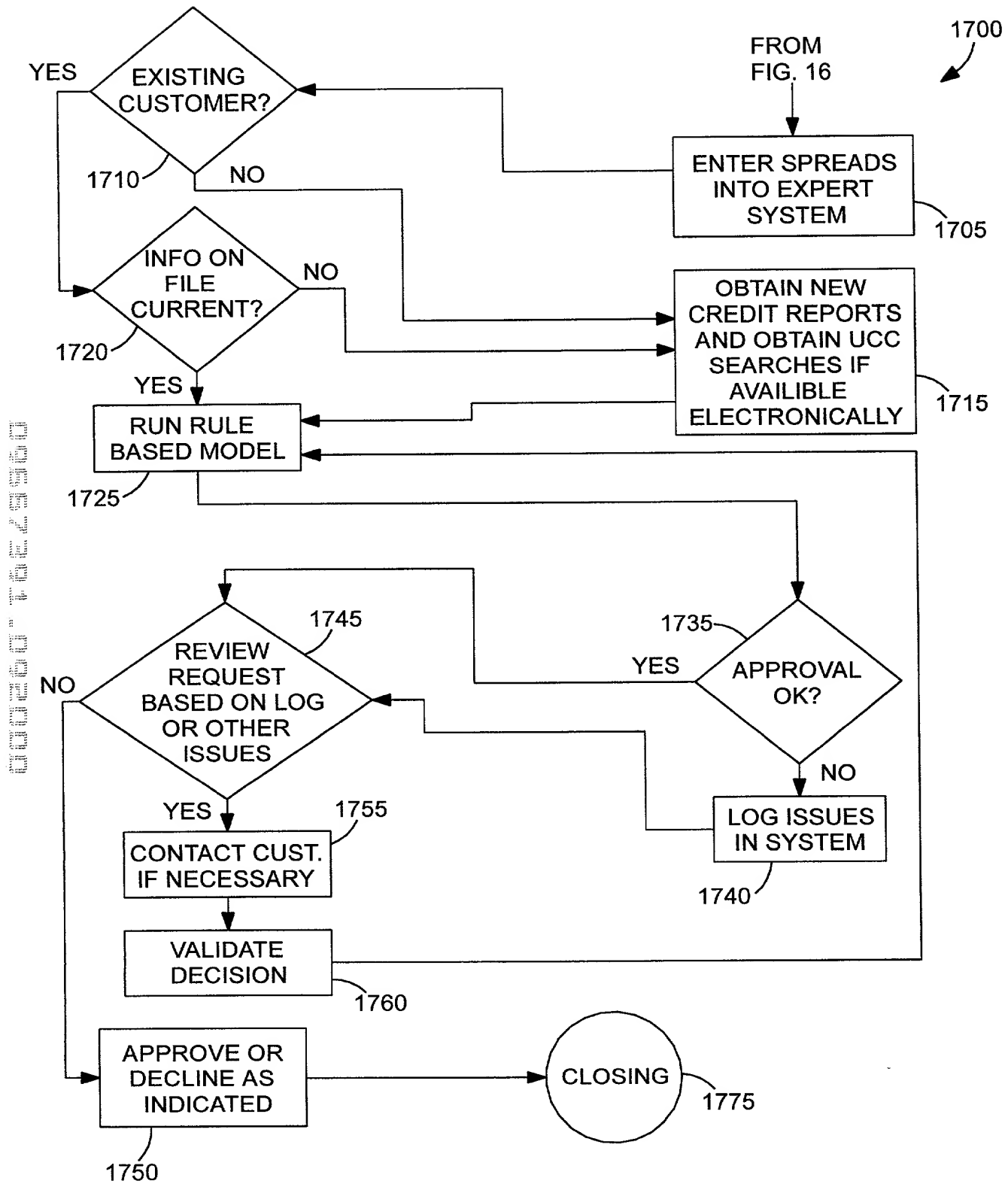
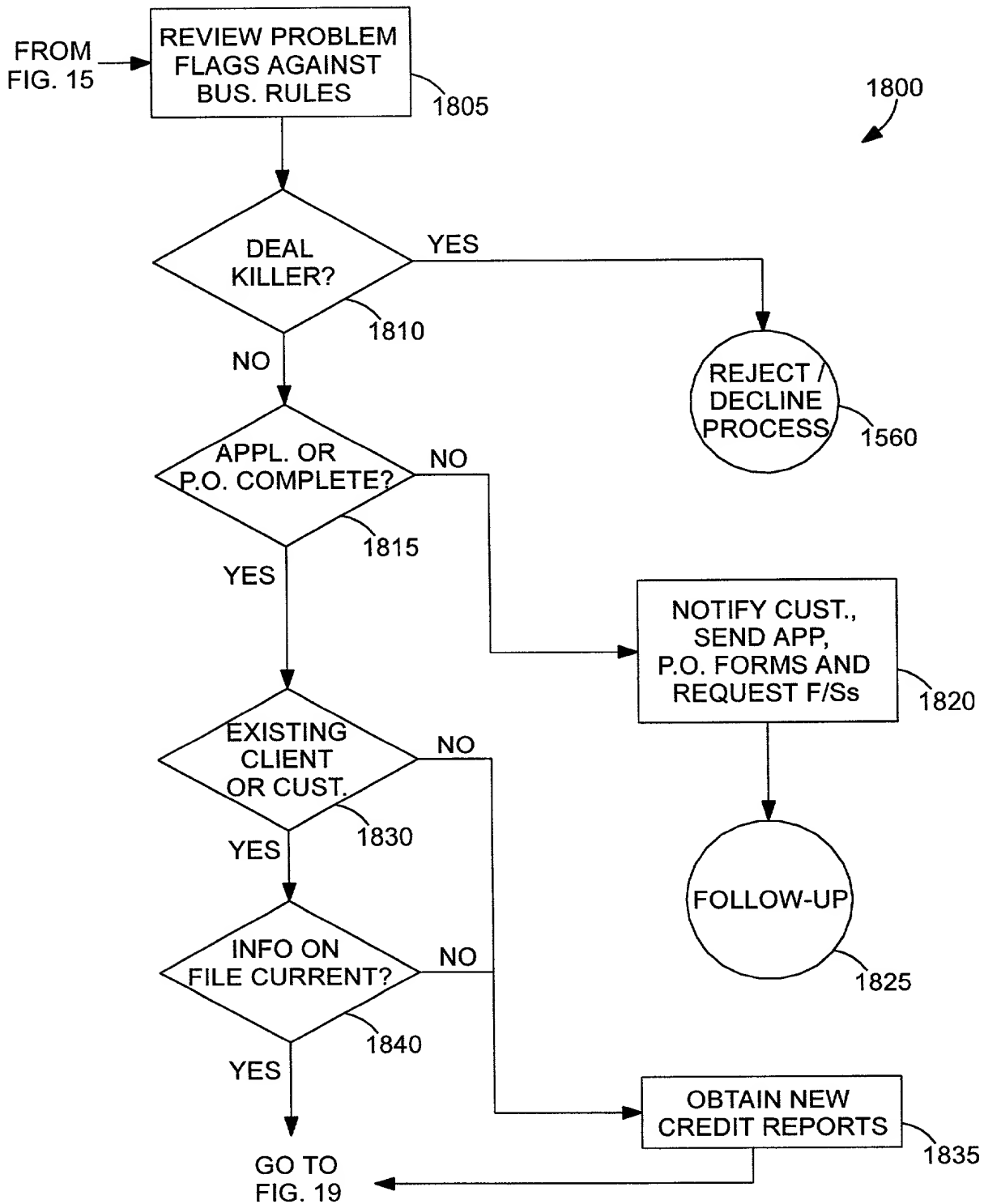
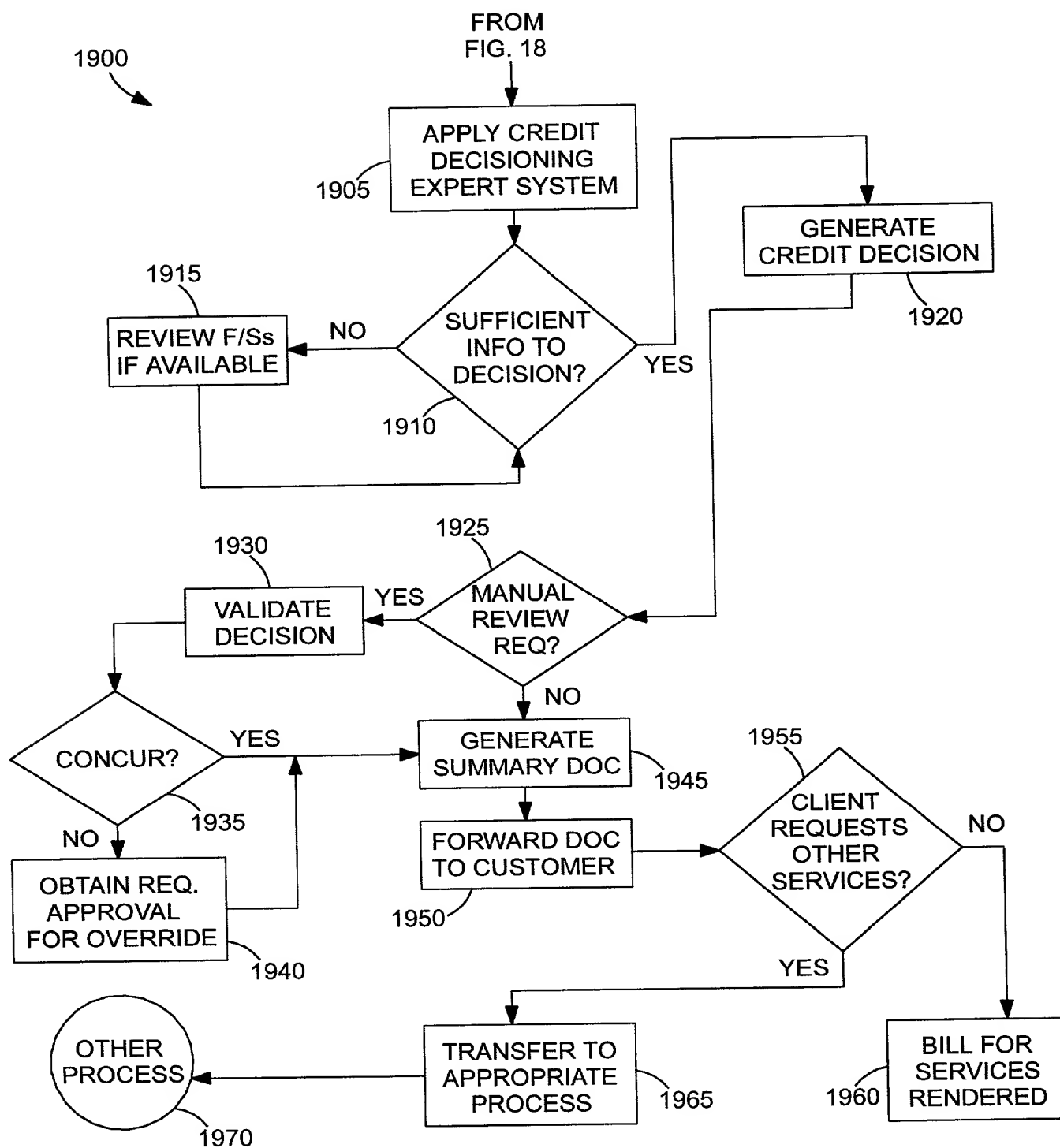


FIG. 17









00816.0210229500

2100

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SERVICES

## BUYER LOG-ON

Please enter your Customer Number and Personal Identification Number (PIN).

Customer Number:

PIN:

2130

2140

2150

2160

2170

Click to find  
out more.

Search

- ▶ Checking & Related Services
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- ▶ Credit Card Payment Processing
- ▶ Loans & Lending
- ▶ Business Credit Card
- ▶ Business Banking Cards
- ▶ Money Market Accounts & CDs
- ▶ Investment & Retirement

...writing  
payroll  
checks.

000000 16629560

2200

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Search

**BUYER** **ACCOUNT STATEMENT**

Arabian Nights  
Tony Scoletta  
6225 West Bronson Highway  
Mishawaka, FL 34747

Statement as of April 07, 2000

Pay	Dispute	Tracking	P.O.	Seller	Invoice Number	Invoice Date	Due Date	Terms	Balance
<input type="checkbox"/>	<input type="checkbox"/>	121323	SW458	ABC	18801	12/07/99	02/08/00	80	777.00
<input type="checkbox"/>	<input type="checkbox"/>	123213	35633	Horizon	18745	02/02/00	03/03/00	30	186.45
<input type="checkbox"/>	<input type="checkbox"/>	123425	53434	Horizon	18806	02/09/00	03/10/00	30	18534.74
<input type="checkbox"/>	<input type="checkbox"/>	252734	SW553	ABC	18813	01/21/00	03/12/00	45	25.00
<input type="checkbox"/>	<input type="checkbox"/>	223458	SW458	ABC	18828	02/11/00	03/12/00	30	25.00
<input type="checkbox"/>	<input type="checkbox"/>	282343	78574	Wilson's	18838	01/14/00	03/13/00	80	135.00
<input type="checkbox"/>	<input type="checkbox"/>	234563	SW688	ABC	18860	02/18/00	03/19/00	30	25.00
<input type="checkbox"/>	<input type="checkbox"/>	234563	SW688	ABC	18868	03/18/00	04/19/00	30	746.00
<input type="checkbox"/>	<input type="checkbox"/>	234563	SW454	ABC	18880	03/18/00	04/19/00	30	325.00

Total Outstanding: \$21779.19  
Total Disputed: \$ 0.00  
Total Due: \$21779.19  
Payment Selection Total: \$ 0.00

2220

2210

2240

2230

Dispute

Pay

FIG. 22

2300

F16.23

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EXTRAS

Microsoft  
MSN Central  
Only your business forward

SEARCH

SERVICES

BUYER Reports

sent by: LEO Funding Group 407 898 0085; 04/07/00 4:11PM; JMSM\_2340; Page 1/1

2420

2410

Araban Nights  
Accounts Payable  
6225 West Bronson Highway  
Kissimmee, FL 34747  
ATTN: Tony Scalotta

A SCHEDULED SERVICE COMPANY  
8419 JOHN VOUGAC PKWY  
ORLANDO, FLORIDA 32804  
TELEPHONE 407 / 364-8839  
FAX 407 / 364-8727

COB II JMSM  
53434 Net 10

COB II JMSM  
18,429.00T  
1,108.74

10,000 PROGRAMS - EXACT REPRINT  
SALES TAX

This amount is owed by and payable to  
LEO FUNDING GROUP, L.P.  
Attn: Mr. TONY  
Alpha: 04-30048-2435

PAYMENT OTHER THAN TO LEO FUNDING GROUP, L.C.  
DOES NOT CONSTITUTE PAYMENT.  
NOTIFY LEO FUNDING GROUP, L.C. IF MERCHANTS  
IS NOT RECEIVED WITHIN 10 DAYS OF INVOICE.

TOTAL \$19,537.74

Check for Address. Amounts are changed to the nearest amount by the parties. Use the following table for the following for the  
other amount of all or any part of same. Failure to make such timely notice is presumed to constitute acceptance of the  
Provision. Payment made by the parties.  
Amount of the invoice. The business and any amounts received by the parties for the following table for the following table.  
A 1 (100) invoice change will be added to any amount already paid to the parties for the following table.

Checking & Related Services  
Tax Payment Service  
Payroll Payment Service  
Credit Card Payment Processing  
Loan & Lending  
Business Credit Card  
Business Banking Cards  
Money Market Accounts  
A.C.O.  
Investment & Retirement

START

000260" 10E25900

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Checking & Related Services  
Tax Payment Services  
Payroll Payment Services  
Credit Card Payment Processing  
Loans & Lending  
Business Banking Cards  
Money Market Accounts & CDs  
Chase Visa<sup>SM</sup> Funds  
Investment & Retirement

STOP

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TRACK

SHIP

QUICK COST

TRANSIT TIME

PICKUP

DROP-OFF

SUPPLIES

TRACKING NUMBER | REFERENCE NUMBER

### Tracking Summary

1. 1Z43X 6X6 02 0000 126 1	Delivered	Delivered on:	Apr 11, 2000 10:46 A.M.
		Delivered to:	LAHAINA, HI, US
		Service Type:	LINDSEY 2ND DAY AIR

Tracking results provided by UPS: Apr 12, 2000 10:30 A.M. Eastern Time (USA)

NOTICE: UPS authorizes you to use UPS tracking systems solely to track shipments tendered by or for you to UPS for delivery and for no other purpose. Any other use of UPS tracking systems and information is strictly prohibited.

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2510

FIG. 25

000000 Feb 29 2000 2600

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BUYER Reports

PAY INVOICES

Arabian Nights  
Tony Scafetta  
6225 West Bronson Highway  
Mishawke, FL 34747

Statement as of April 07, 2000

Tracking	P.O.	Seller	Invoice Number	Invoice Date	Due Date	Terms	Balance
123213	35833	Horizon	18745	02/02/00	03/03/00	30	188.45
123425	53434	Horizon	18808	02/08/00	03/10/00	30	18534.74
252234	8W553	ABC	18813	01/21/00	03/12/00	45	25.00
223456	8W456	ABC	18828	02/11/00	03/12/00	30	25.00
262343	78574	Willson's	18838	01/14/00	03/15/00	60	135.00
234563	8W898	ABC	18880	02/18/00	03/18/00	30	25.00
Total:							18931.19

Pay Now

Return to Invoices

Check Account

Check Account

Check Account

Chase Operating Account

Chase Line of Credit

Chase Money Market

2610

2620

Checking & Related Services

Int. Payment Service

Payroll Payment Service

Credit Card Payment Processing

Loans & Lending

Business Credit Card

Business Banking Cards

Money Market Accounts

A.C.O.

Chase Visa Funds

Investment & Retirement

STOP

FIG. 26

Fig. 27



0082



Fig. 28

2900

# SELLER DISPUTED ITEMS

**ABC, Inc.**  
**Richard Stroker**  
**1475 Broad Street**  
**Orlando, FL 34101**

## Statement as of April 07, 2000

Customer	Invoice Number	P.O. Number	Invoice Amount	Drop Date	Reason For Dispute	Status
Arabian Nights	18601	8W458	\$777.00	02/08/00	Wrong Item	Under Review
A.M.E. LOGISTICS, INC.	2134221	JW335	\$1,605.00	02/18/00	Damaged	Under Review

2910

2920

Received the wrong item...

2923

Sorry for the confusion...

2923

Bend Response

F16.29

3030

F16.30



SERVICES

↓ Action Required  
↓ Reports

Download Transactions

## Update Credit Recommendations

SELLER ACCOUNT STATUS [↓ Reports](#) [↓ Actions](#)

**ABC, Inc.**  
**Richard Stroker**  
**1475 Broad Street**  
**Orlando, FL 34101**

IT'S THE CONTROL YOU WANT.  
IT'S THE EDGE YOU NEED.  
IT'S EVERYWHERE YOU WANT TO BE.  
**CLICK HERE TO GET A CARD!**

Statement as of April 07, 2000

Current Outstandings	\$597,342.31	Ineligible Receivables	\$11,505.00	Funds Employed	\$510,289.73	Current Availability	\$ 333.35	Pending Schedules	1	Disputed Items	\$2,282.00	Collections	\$2,381.25
----------------------	--------------	------------------------	-------------	----------------	--------------	----------------------	-----------	-------------------	---	----------------	------------	-------------	------------

→ **Chase Vista Sm Funds...**  
→ **Investment & Retirement**

# STOP

SUBMIT INVOICES		ADVANCE REQUEST	
From: <input type="text"/>	To: <input type="text"/>	Amount: \$ <input type="text"/>	<input type="text"/>
Advance Request		Submit	
<p>For advance of funds for 2000, please contact your          account manager.</p> <p>Michigan: 800-272-1111          Ohio: 800-400-4000          Washington: 800-400-4000</p>			
Cancel Submission		Re-Submit	
<p>QUESTIONS?</p> <p>QUESTIONS?</p> <p>QUESTIONS?</p> <p>QUESTIONS?</p> <p>QUESTIONS?</p> <p>QUESTIONS?</p> <p>QUESTIONS?</p> <p>QUESTIONS?</p>		<p>QUESTIONS?</p> <p>QUESTIONS?</p> <p>QUESTIONS?</p> <p>QUESTIONS?</p> <p>QUESTIONS?</p> <p>QUESTIONS?</p> <p>QUESTIONS?</p>	
QUESTIONS?		QUESTIONS?	

3110

F16.31



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**BUYER** Report

to Bill Wilson  
ABC  
1475 Broad Street  
Orlando, FL 34101

phone 407-203-4477, ext 205  
fax 407-203-4478  
e-mail bill@abc.com

Send: Fax Response Email Response

Notes:

Choose Report

Tracking	P.O.	Seller	Invoice Number	Invoice Date	Due Date	Terms	Balance
121323	SW458	ABC	16801	12/07/99	02/06/00	60	777 00
257234	SW553	ABC	16813	01/21/00	03/12/00	45	25 00
223456	SW456	ABC	16826	02/11/00	03/12/00	30	26 00
234563	SW526	ABC	16860	02/18/00	03/19/00	30	25 00
234563	SW698	ABC	16868	03/18/00	04/19/00	30	748 00
234563	SW454	ABC	16980	03/18/00	04/19/00	30	325 00
ABC Sub-Total:							1223.00

View Catalog  
Place Order  
View History

thinking

Start | Index | RE-LSQ | Exploring | LSQ P | 80 | Docume | 1:22 PM

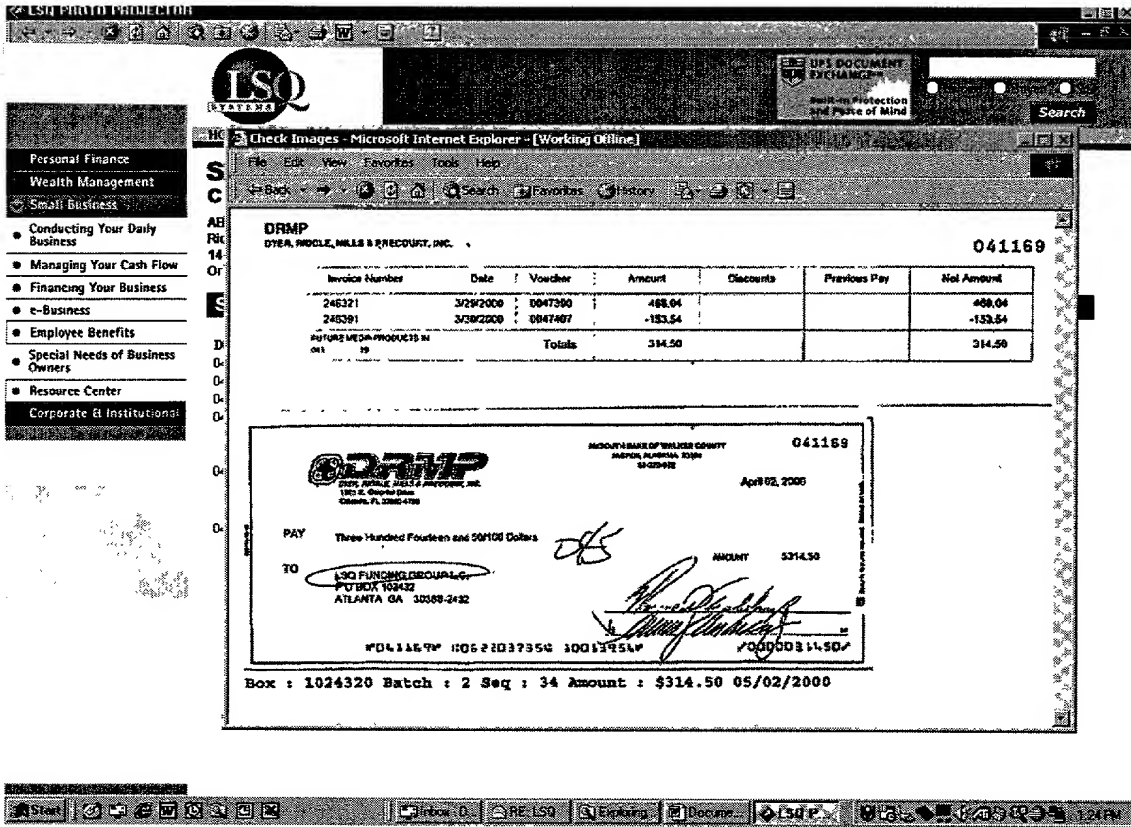
3300

FIG. 33



[illegible]





3600

FIG. 36

FIG. 37

[illegible]

3800

F16.38

**DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I HEREBY DECLARE:

THAT my residence, post office address, and citizenship are as stated below next to my name;

THAT I believe I am the original, first, and sole inventor (if only one inventor is named below) or an original, first, and joint inventor (if plural inventors are named below or in an attached Declaration) of the subject matter which is claimed and for which a patent is sought on the invention entitled

**SYSTEM FOR AND METHOD OF HANDLING REFERRALS FROM REFERRING PARTIES**

**(Attorney Docket No. 46983/103)**

the specification of which (check one)

  X   is attached hereto.

       was filed on        as United States Application Number or PCT International Application Number        and was amended on        (if applicable).

THAT I do not know and do not believe that the same invention was ever known or used by others in the United States of America, or was patented or described in any printed publication in any country, before I (we) invented it;

THAT I do not know and do not believe that the same invention was patented or described in any printed publication in any country, or in public use or on sale in the United States of America, for more than one year prior to the filing date of this United States application;

THAT I do not know and do not believe that the same invention was first patented or made the subject of an inventor's certificate that issued in any country foreign to the United States of America before the filing date of this United States application if the foreign application was filed by me (us), or by my (our) legal representatives or assigns, more than twelve months (six months for design patents) prior to the filing date of this United States application;

THAT I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above;

THAT I believe that the above-identified specification contains a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention, and sets forth the best mode contemplated by me of carrying out the invention; and

THAT I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I HEREBY CLAIM foreign priority benefits under Title 35, United States Code § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number	Country	Foreign Filing Date	Priority Claimed?	Certified Copy Attached?

I HEREBY CLAIM the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

U.S. Provisional Application Number	Filing Date
60/230968	09/07/2000

I HEREBY CLAIM the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application Number	PCT Parent Application Number	Parent Filing Date	Parent Patent Number

I HEREBY APPOINT the following registered attorneys and agents of the law firm of FOLEY & LARDNER to have full power to prosecute this application and any continuations, divisions, reissues, and reexaminations thereof, to receive the patent, and to transact all business in the United States Patent and Trademark Office connected therewith:

RUSSELL J. BARRON	Reg. No. 29,512
DAVID J. BATES	Reg. No. 39,902
STEVEN C. BECKER	Reg. No. 42,308
DOUGLAS A. BOEHM	Reg. No. 32,014
EDWARD W. BROWN	Reg. No. 22,022
CHARLES G. CARTER	Reg. No. 35,093
ALISTAIR K. CHAN	Reg. No. 44,603

JOHN C. COOPER III	Reg. No. 26,416
JEFFREY N. COSTAKOS	Reg. No. 34,144
WILLIAM J. DICK	Reg. No. 22,205
BARRY L. GROSSMAN	Reg. No. 30,844
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KATHERINE D. LEE	Reg. No. 44,865
KEITH D. LINDENBAUM	Reg. No. 40,365
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MICHAEL D. RECHTIN	Reg. No. 30,128
CHRISTOPHER M. TUROSKI	Reg. No. 44,456
JAMES A. WILKE	Reg. No. 34,279
JOSEPH N. ZIEBERT	Reg. No. 35,421
WALTER E. ZIMMERMAN	Reg. No. 40,883

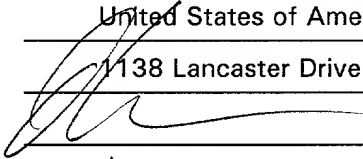
and I request that all correspondence be directed to:

Paul S. Hunter  
**FOLEY & LARDNER**  
 Firststar Center  
 777 East Wisconsin Avenue  
 Milwaukee, Wisconsin 53202-5367

Telephone: (414) 297-5728  
 Facsimile: (414) 297-4900

I UNDERSTAND AND AGREE THAT the foregoing attorneys and agents appointed by me to prosecute this application do not personally represent me or my legal interests, but instead represent the interests of the legal owner(s) of the invention described in this application.

I FURTHER DECLARE THAT all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Name of first inventor	A. Maxwell Eliscu
Residence	Orlando, Florida
Citizenship	United States of America
Post Office Address	1138 Lancaster Drive, Orlando, Florida 32806
Inventor's signature	
Date	9/19/00